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Architects: George Fairweather and R. Furneaux Jordon, F.F.R.I.B.A.

STAND No. 89 ROW E

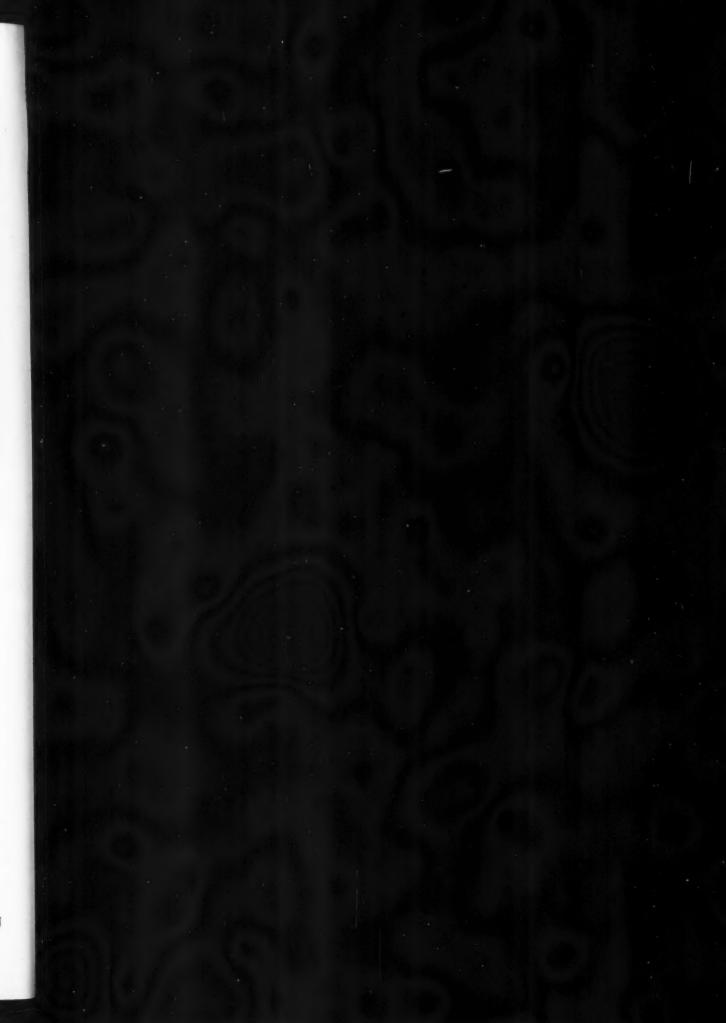
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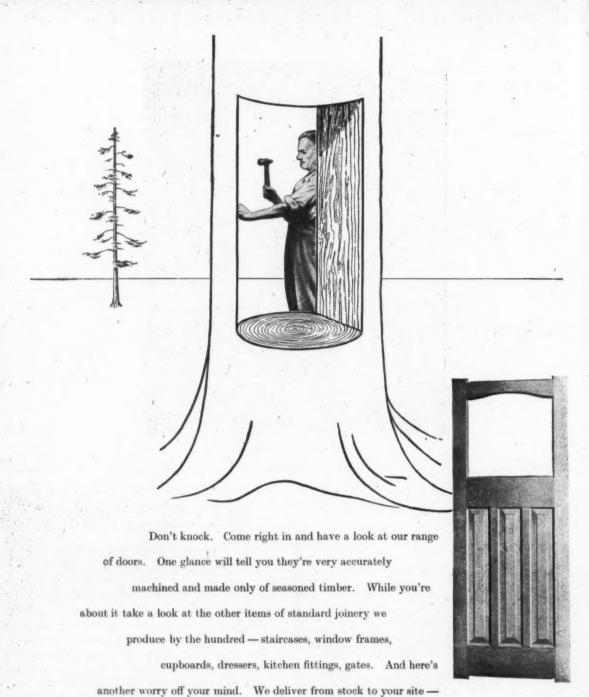
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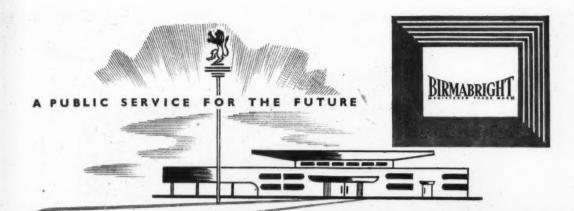


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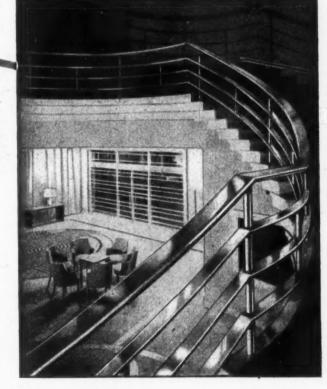
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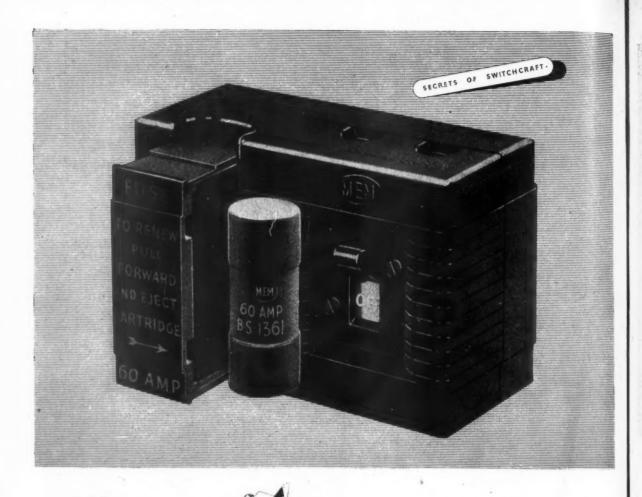
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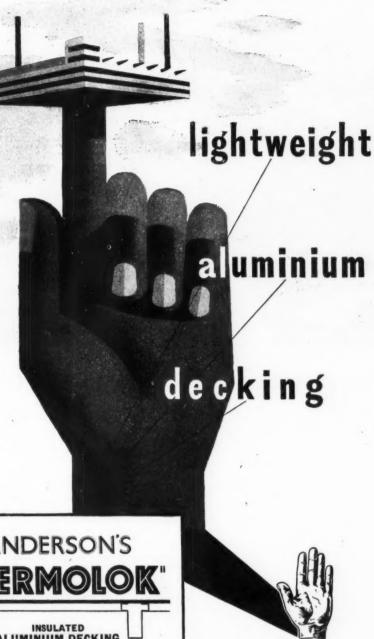
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POTTERY THROUGH THE AGES . NO 20



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EUROPE DISCOVERS THE SECRET OF PORCELAIN

Portuguese and Dutch traders introduced Chinese porcelain into Europe. Soon there developed among the wealthier classes a great wave of enthusiasm for this precious and translucent expression of the potter's art. Many imitations were made by European potters in tinglazed earthenware and there was a sustained and widespread search for the secret of true "hardpaste" porcelain.

glazed earthenware and there was a sustained and widespread search for the secret of true "hardpaste" porcelain.

An artificial or "soft-paste" material, known as Medici porcelain, was produced in Florence as early as 1580. Other "soft-paste" types, partly composed of glass, were developed nearly 100 years later in Rouen and Saint-Cloud by French potters. And finally in Saxony early in the 18th century, after many experiments, a German alchemist — Johann Friedrich Bottger — discovered the great secret of the all-essential materials which the Chinese called Kaolin and petuntse, now known to us as china clay and china stone. He also discovered how the ingredients should be

prepared, mixed and fired. Under Royal patronage, the famous Meissen porcelain factory near Dresden was founded in 1710 and retained the leadership in Europe for half a century, despite the betrayal of manufacturing secrets to rival potteries in Vienna and Venice.

The production of porcelain became a luxury art, depending largely on the patronage of princes and noblemen. It was strongly influenced first by the Baroque and later by the Rococo styles so much in vogue at the time. The fragile, delicate material lent itself to the shaping of an almost limitless variety of colourful creations, charming and playful at their best but only too easily becoming crude and over-elaborated.

It was said that every German prince wished to own a porcelain factory! Other European rulers followed suit and works were established in Capo-di-Monte, Vincennes, Sevres and many other places. The first English porcelain productions were those of the famous Chelsea and Bow factories, both of which were established about 1744, the former owing its origin to French and Belgian immigrants.

In the Chelsea productions in particular the influence of Chinese, German and French wares can be seen. During their comparatively brief existence the Bow and Chelsea works produced an astonishingly brilliant and varied output of figures, tablewares, sruff-boxes, scent bottles, powder boxes and other creations which were periodically disposed of at auction sales. These wares are today eagerly sought after by collectors all over the world.

18th century English porcelain, with the exception of that produced for a short period at Plymouth and Bristol, was all of the "soft-paste" variety, fired at a lower temperature than continental or chinese porcelain and comparatively easy to mark with file.

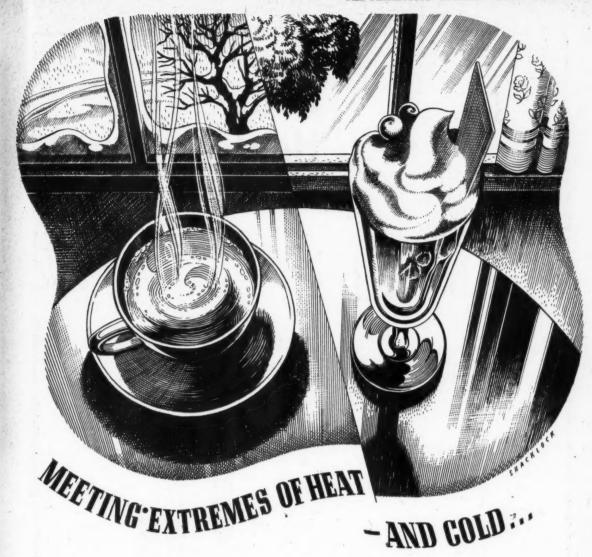


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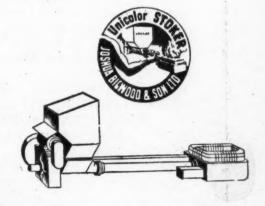
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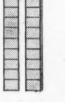




Reducing Heat Losses

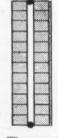
The U-value of 9" solid brickwork, plastered on the inner face, is—

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Substitute an II" ventilated cavity wall, plastered on the inner face, and the figure becomes—

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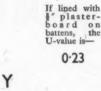


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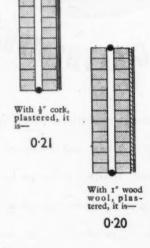
CAVITY BRICK WALL



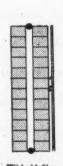
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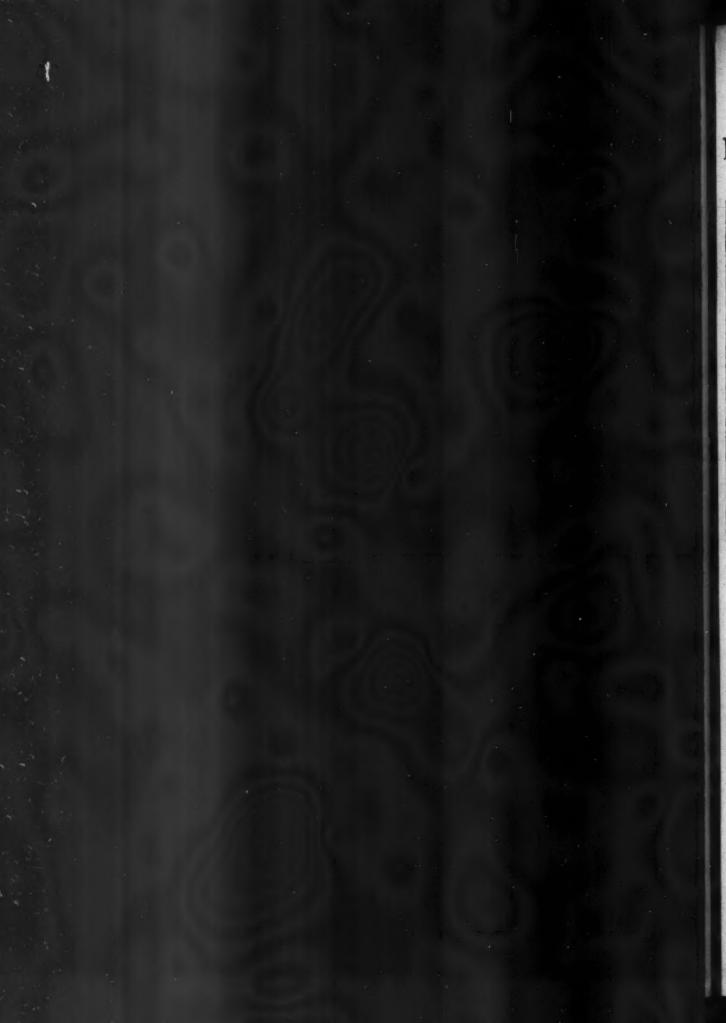
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The lever handles are elaborately made, the one on the lock being a fixture. The key is also original. It is a massive wrought iron affair 7½" long.

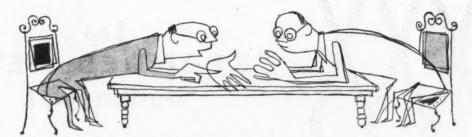
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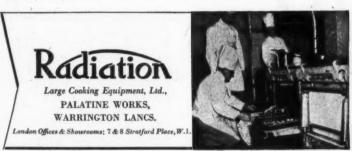
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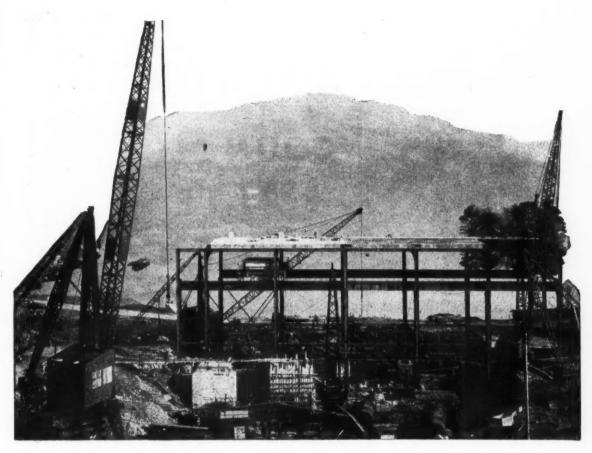








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Though its aesthetic beauty is questionable, the technical excellence of St. Sophia is beyond doubt. Most conspicuous feature is the great dome, one hundred and seven feet in diameter, carried on four arches and flanked by two semi-domes. The original dome collapsed after about twenty years, but was at once rebuilt and has stood for fifteen hundred years since.

The main structure of St. Sophia is of brick with the interior walls finished in marble and the numerous ground floor columns of porphyry. Beneath the dome, one hundred and eighty feet to its apex, is a vista of spacious grandeur which makes this reminder of the Byzantine Empire a rival to any other erection since its time.

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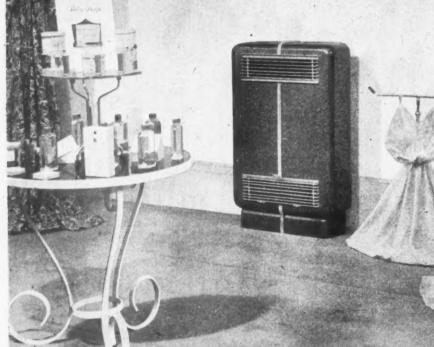
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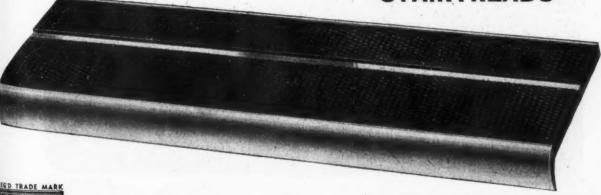
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The importance of the ALUMINEX continuous glazing cover strip

If you examined the largest composite plate glass window in the world you might have occasion to make a brilliantly original remark on the importance of little things. For the success of that enormous structure — we refer, of course, to the 1,052 ft. x 50 ft. glazed stretch in the northern wall of the Brabazon hangar at Filton — depends in part on the properties of a springy strip of aluminium rolled into a special shape and squeezed between panes of glass and a rib of metal. This is the continuous glazing cover strip which secures the panes of glass in the Aluminex patent glazing system.

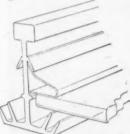


Holding glass securely

The importance of the Aluminex continuous glazing cover strip lies in the fact that it has been so made that it holds panes of glass securely in any plane without the aid of putty, serews, cord seatings or flashings. At the same time it responds satisfactorily to all shocks, vibrations and thermal movements of glass and metal.

Its value is enhanced by the fact that the fitter merely squeezes it and pushes it into place between the glass surface and the topmost rib of the Aluminex glazing bar.

This simplicity of design is characteristic of the Aluminex glazing system. The glazing bar, into which the glazing cover strip fits, for example, is strictly functional in design.



This Aluminex potent glazing bar is of extruded aluminium alloy of special composition. Here is seen one glazing cover strip holding a pune of glass in position on the bar.

The Aluminex glazing bar is extruded to a patent design. It consists of a main web with a strengthening ridge at the top holding a necessary weight of metal in balance. From the "spine" emerge ribs on each side to hold the continuous glazing cover strip, ribs to serve as anticapilliary stops for the glass and supporting flanges to receive the weight of the glass. There are further flanges to form drainage and condensation channels.



The glazing cover strip is of strip aluminium alloy rolled to this wedge shape. It is springy, to absorb shock and thermal movement.

The composition of the alloy

The glazing bar and the cover strip are composed of an alloy of aluminium, silicon and magnesium in which the proportion of the silicon and magnesium have been specially determined in order to increase resistance to corrosion. (It has been found that the major factor in resistance to corrosion is the composition of the

aluminium alloy and that anodizing and the other surfacing, processes are of secondary importance.) The Aluminex alloy rapidly produces an extremely hard permanent patina which thereafter remains static and protects the metal from further corression.

The properties of Aluminex

These two basic components of the Aluminex patent glazing system are thus designed (1) to hold glass rigidly in position in all temperatures, (2) to hold it safely in whatever plane is required either in roof or sidewalls, (3) to carry out this function by the simplest and most practical means, (4) to cover any given area, and (5) to resist corrosion in all normal atmospheres for an indefinitely long period.

Experience has, so far, failed to set a limit on the area of roof or sidewall that can be glazed by this system. The largest area on record is that of the window in the Brabazon hangar north wall mentioned above. This perhaps should be classified not as a window, but as a "glass wall," and the Aluminex system not simply as a means of glazing but as a method of construction.

A new role for Aluminex

This is borne out by experience in other projects, particularly in the LC.I. Experimental building at Witton. This building has been erected to test the application of non-ferrous metals in various fields. Its south wall is constructed on Aluminex casement sections. Some of the spaces between the bars, however, are not glazed, but fitted with solid panels to form a wall. Aluminex, in this context is indeed a method of construction and the completed structure might best be called a "wall grid."

Two double-glazing systems

The questions of insulation and condensation are particularly relevant when these more ambitious uses of the Aluminex system are discussed. It is therefore interesting to note that the system allows for double glazing (or double panelling) with still air retained between the two surfaces, and also for sealed double glazing. Both these methods provide a degree of insulation superior to some more conventional building materials.

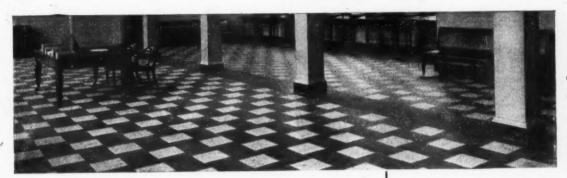
The exciting possibilities of Aluminex

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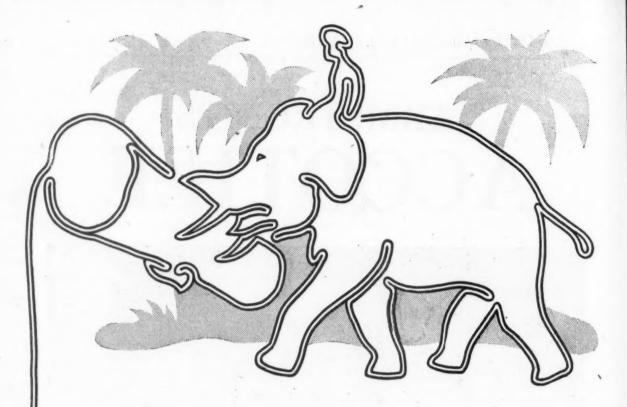
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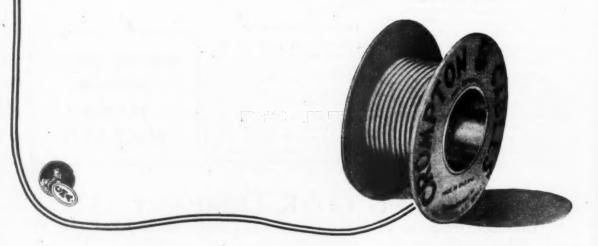
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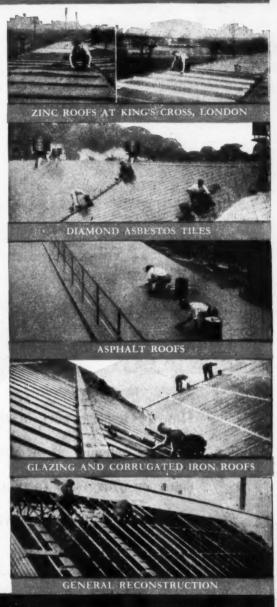
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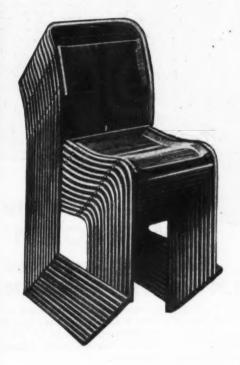
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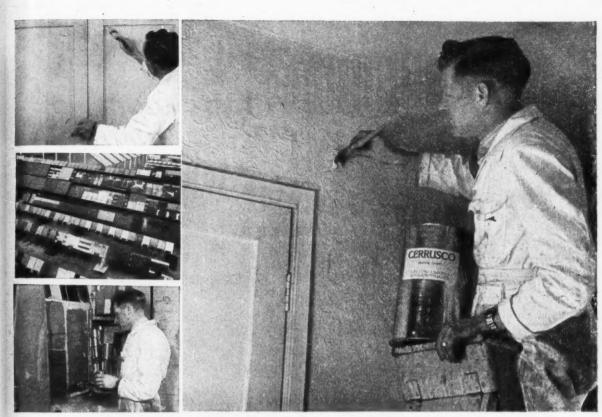
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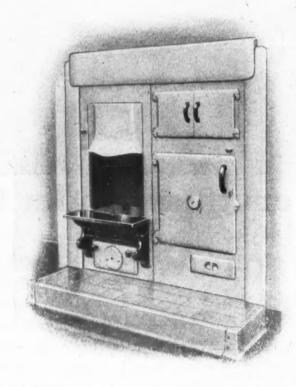
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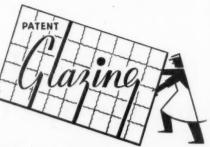
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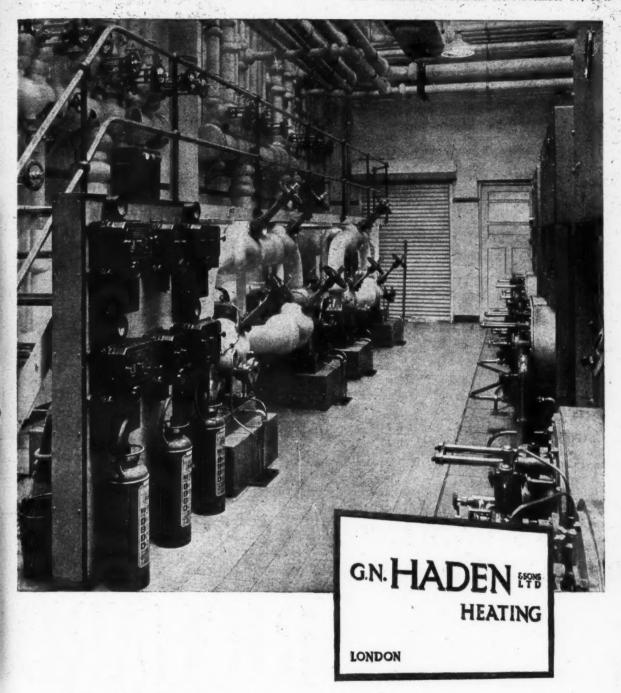


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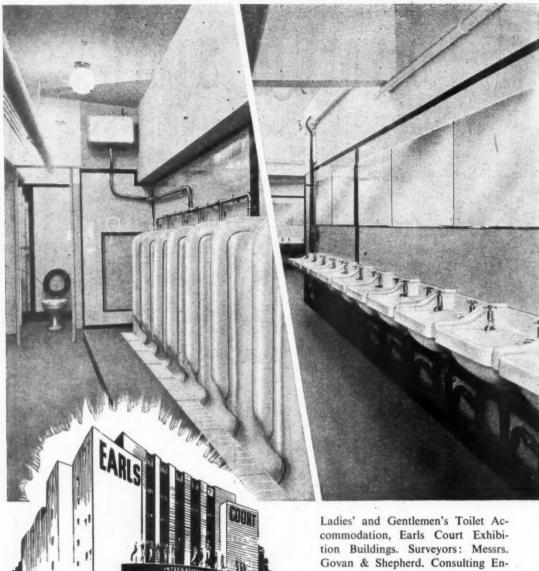
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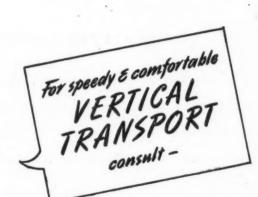
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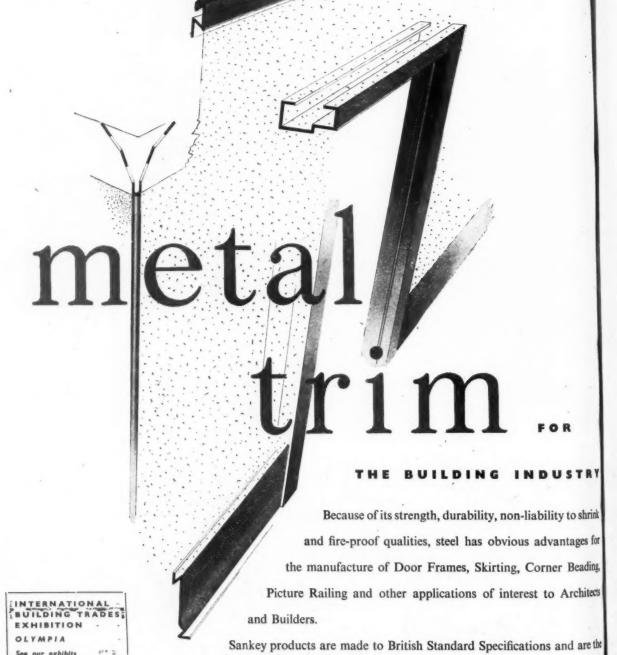
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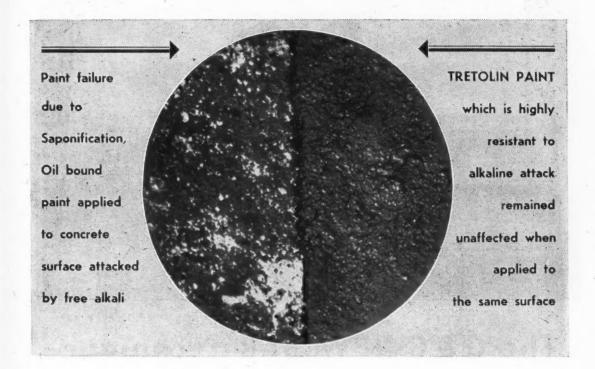


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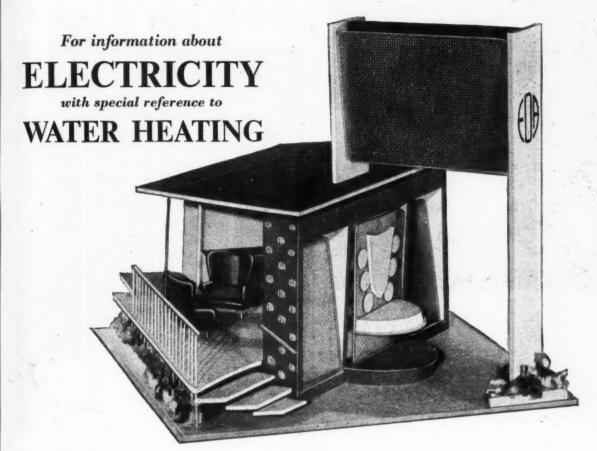
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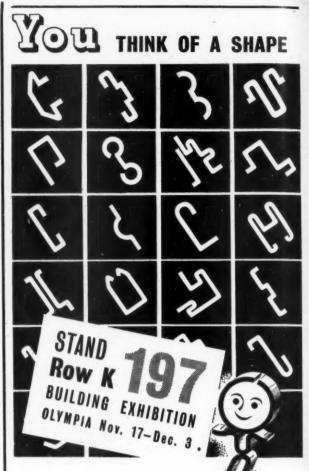
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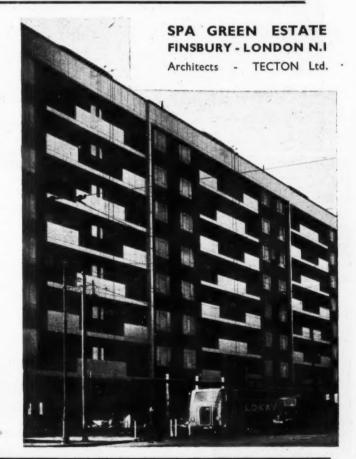
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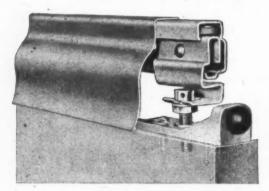
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Above) FLATS AT RIVERSIDE GARDENS, HAMMERSMITH)
Borough Engineer and Surveyor of Hammersmith: F, Doug'as Barton,
M.I.Mun.E., F.R.S.I. Contractors: Messrs. Tersons, Ltd., London. M.I.Mun.E., F.R.S.I. Contractors: Messrs. Tersons, Ltd., London. (Right) KING GEORGE V HOSPITAL, MALTA, G.C. Architects: Messrs. Adams, Holden & Pearson, FF.R.I.B.A. Contractors: Messrs. John Laing & Son, Ltd., London, N.W.7. (Below) HAMSEY GREEN SCHOOL, SURREY County Architect, Surrey County Council, J. Harrison, A.R.I.B.A. Contractors: Messrs. E. H. Smith-(Croydon) Ltd.

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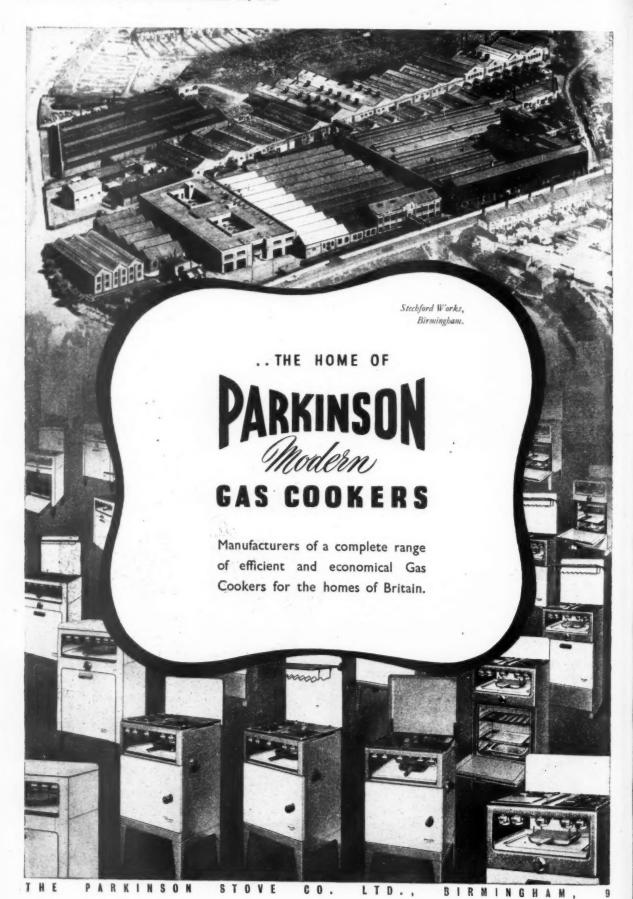
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In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then



be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. Od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each; carriage 1s. extra.

DIARY FOR NOVEMBER DECEMBER AND JANUARY

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

BBC Public Architecture. Third program me talks. Speakers, Percy Marshall (Nov. 18, 7.5 p.m.); and R. Furneaux Jordan (Nov. 23, 8.10 p.m.).

Nov. 18 AND 23

BRIGHTON. Annual National Housing and Planning Conference. The Royal Pavilion, Brighton. (Sponsor, National Housing and Town Planning Council.) Nov. 24-27

L ONDON. American Housing Exhibition. Building Centre. 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 1 p.m. UNTIL Nov. 30

Noise Control. A course of weekly lectures by C. A. Mason, R. B. Grey, J. McLaren. LCC Brixton School of Building, Ferndale Road, S.W.4. 6.30 p.m.
Nov. 23, 30, DEC. 7

Business Efficiency Exhibition. Olympia. (Sponsors, Office Appliance Trades Association). 10 a.m. to 8 p.m. daily.

UNTIL Nov. 19

Ianko Laurin. Aspects of Russo-Byzantine Architecture, 15, Lisle Street, W.C.2. (Sponsor, AIA). 8 p.m. Nov. 18

Arthur Ling. An Architect Revisits Warsaw. 81, Portland Place, W.1. (Sponsor, British-Polish Society.) 8 p.m. Nov. 18

Building Exhibition. Olympia. Daily, 10 am. to 8 p.m. Nov. 17-Dec. 1

Professor C. A. Hart. The Influence of Modern Methods of Surveying on the Advancement of Public Works Engineering and Town Planning. University College, Gower Street, London, W.C.1. (Chadwick Public Lecture.) 2.30 p.m. Nov. 22

COMPETITIONS

New Civic Hall at Guildford. Promoters: Guildford Corporation. Assessor: G. A. Jellicoe, F.R.I.B.A. Premiums: (1) £1.000. (2) £500. (3) £250. Site: Firs Estate, London Road, Guildford. The promoters require a design for (a) a large assembly hall, to seat 1.200 persons, to be used for civic and concert purposes, and (b) a small hall, to seat 500 persons, for lectures with an alternative use as a banqueting hall.

Enquiries must be received by the Town Clerk, Municipal Offices, Guildford, Surrey, with a deposit of £2 2s.. to be paid by the competitor for conditions of entry. Designs must be received by April 30, 1950.

Art School, Jersey, Channel Islands. The Association of Old Victorians invite architects of British nationality to submit designs in competition for war memorial buildings proposed to be erected in the Victoria College Grounds, Jersey, Channel Islands. Assessor: A. E. O. Geens. Premiums: £75, £50 and £25. Completed designs should be sent to A. H. Worrall, hon. treasurer, The Association of Old Victorians, 25, Cleveland Road, Jersey, C.I., not later than April 3, 1950. Questions must be received on or before December 31 by Mr. Worrall, who will also provide a copy of the conditions on the deposit of £1 ls. Following are extracts from the conditions:—The elevation should be treated in a restrained and dignified manner, having regard to the existing buildings of the Victoria College, which are mainly built of grante in the Gothic style. The entrance porch should be approximately 14 ft. by 12 ft. It is the intention of the promoters to use this entrance porch as a War Memorial to past students of the College. Adequate space should be provided for a memorial tablet. The main studios should be approximately 34 ft. by 20 ft. by 14 ft. in height. Four smaller are also required.

NEWS

| THURSDAY, | November | r 17, | 1949 |
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22.D13 Anderson Wedge Method of Invisible Fixing 30.C2 'True Flue' Domestic Flues 2: with Open Fire and Convection Heating

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Industrial Buildings at Scunthorpe 559
The Industry by Brian Grant ... 569

Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

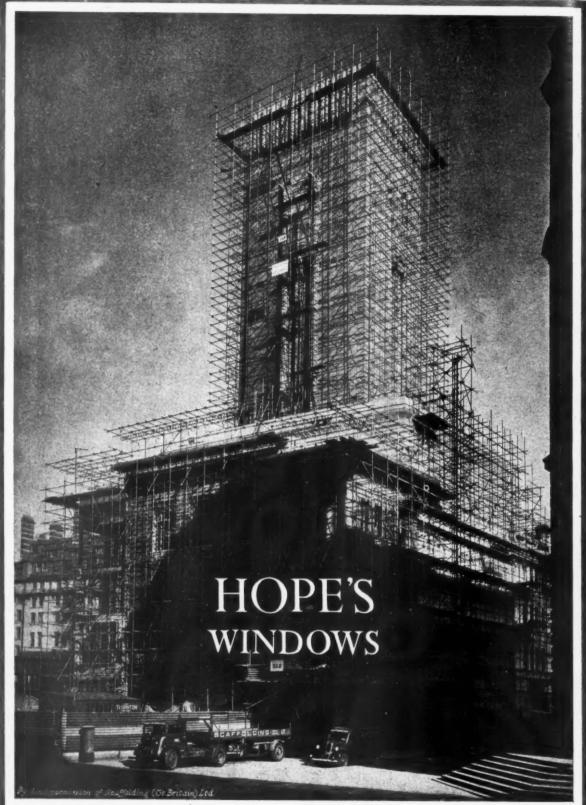
* means spare a second for this, it will probably be worth it.

** means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.



Mr. Brian O'Rorke, architect, (left), who was responsible for the interior design of the Orient Liner, "Orcades," lunching with Sir Francis Meynell, a member of the CID, when he visited the liner recently with other members.



MERSEY TUNNEL VENTILATION BUILDING H. J. Rowse, F.R.I.B.A., Architect





ARCHITECT'S Commonplace Book AN

WREN ON ARCHITECTURE. [From A Calendar of British Taste from 1600-1800, by E. F. Carritt (Routledge & Kegan Paul, Ltd., 21s.).]—From the most profound Ignorance in Architecture, the most consummate Night of Knowledge, Inigo Jones started up, a Prodigy of Art, and vied even with his Master Palladio himself. . . . No sort of Pinnacle is worthy enough to appear in the Air, but a Statue. Pyramids are Gothic; Pots are modern French. Chimnies ought to be hid, if not, to be well adorned. No Roof can have Dignity enough to appear above a Cornice, but the Circular; in private Buildings it is excusable. The Ancients affected Flatness. . . . Tracery induced too much mincing of the Stone into open Battlements and spindling Pinnacles, and little carvings without Proportion of Distance; so the essential Rules of good Perspective and Duration were forgotten. But about two hundred years ago . . . the architects also, ashamed of the modern Barbarity of Buildings, began to examine carefully the Ruins of Old Rome.—(Wren, Parentalia, published 1750.)

RIBA EXAMINATION CON-CESSIONS are to CEASE.

In view of the time which has now elapsed ence the end of the war, no applications for concessions under the RIBA scheme of examination concessions for students whose studies have been interrupted by war service will be accepted for consideration by the RIBA after January 1, 1950. The scheme of concessions affected the Testimonies of Study and the papers on the History of Architecture in the Intermediate Examinaion, and the Testimonies of Study and the Thesis in the Final Examination.

A PLAN for WARWICK

has been published last week by the Architectural Press, the authors, Sir Patrick Abercrombie and Mr. Richard Nickson, say that the town should have its essential character enhanced and intensified so that its future function becomes that of a small town of great him. comes that of a small town of great historical interest and charm.

It should, they say, remain as the para-mount historical asset of the country and mount historical asset of the country and possibly, eventually, the cultural centre of the Midlands, making, with Leamington, Stratford-on-Avon and Kenilworth, a notable group which, properly pianned and administered, should be a permanent attraction for visitors, a steady source of income to itself and an asset to the nation. The authors state that the 50- or 75-year plan they recommend does not en-

year plan they recommend does not envisage an attempt to recreate an atmosphere of vague antiquity by means of more or less spurious restorations. As they point out, there is enough of the real thing in Warwick. "It is indeed no museum or sarcophagus which is offered to the public for inspection. Every building, from the castle, St. Mary's and the Leycester Hospital downwards, is in full living use (much more, in fact, than the show-places of Stratford)."

We regret to announce that Mr. PERCY J. WALDRAM died last week.

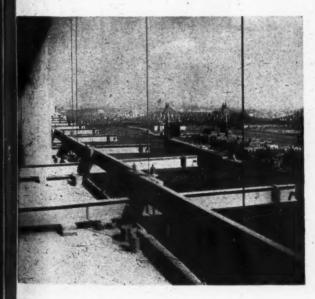
Mr. Waldram, who died on November 8 at the age or 80, was best known born in this country and abroad as a pioneer and leading authority on daylight and sunlight.

In 1923, in conadoration with his eder son. he devised methods of predetermining and calculating daylight which are recognized as standard. He was a well known expert in "ancient light" disputes, and gave evidence in many actions, some of which are now quoted as leading cases.

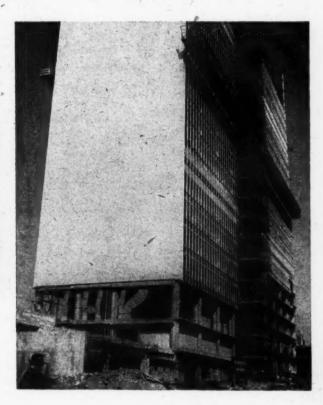
quoted as leading cases.

He was chairman, in 1933, of a Committee of the RIBA upon "The Orientation of Buildings," the report of which is a record of the properties of sunlight. He wrote many papers and articles on daylight to technical journals and societies, including the International Commission on Illumination, upon all aspects of daylight and supplicits. upon all aspects of daylight and sunlight, particularly as they affect town planning.

He was a Member of the Royal Institution; a Licentiate and a former Member of Council and Examiner of the RIBA; a Fellow of the RICS; and a past-chairman and vice-president of the Junior Institution of Engineers, with which body he was closely asso-ciated in his younger days. He was an ori-ginal member and Fellow of the Illuminating Engineering Society and a past Member



A few weeks ago President Truman was present at the laying of the corner stone of the permanent United Nations Headquarters at Forty-second Street and Franklin D. Roosevelt Drive, New York. The photograph on the right gives some idea of the progress that has been made on the building. Above is a view from the Headquarters, looking over the River Flushing.





Publicity for New MOH Standards

The opening today of the Building Exhibition at Olympia coincides with the publication of the new Housing Manual by the Ministry of Health. This photograph, which is typical of the work being shown at the Exhibition by the Ministry, and is the first illustration in the new Manual,

shows a house on the estate at Windmill Green, Ditchingham, for which the architects were Tayler and Green. Photographs of models which are on view at Olympia are published in the Manual to "illustrate the principles of design and layout." See page 549.

A MODEL VILLAGE has been proposed for KENT. Kent County Planning Committee has approved outline proposals for a model village at Vigo. a squatters' settlement on the North Downs near the Pilgrims' Way which was well known during the war as a nutted pre-OCTU training establishment. These will form the basis for the detailed plan for the new community, which will occupy an area of 124 acres and will be planned for up to 1,500 inhabitants.

The settlement is in the Strood rural district, whose council shares with Gravesend borough and Northfleet urban district councils, the responsibility of administering the camp area. Four separate sets of proposals for the new village were prepared by the County Planning Officer (Mr. James W. R. Adams), for consideration by the Strood Rural District Council.

The chairman of the county planning committee. Captain W. Wigham Richardson, states that the committee believes that a well-planned rural community in the Vigo area would be of benefit to Kent. Before the war, this area was mainly woodland. Now some 1,300 people live there in hutted

The outline plan for the new commun'ty, he says, has been prepared in such a way as to site the vil'age as near as possible to the main Wrotham-Grave-end road. It aims at keeping the village compact and preventing undesirable stragg'e. The committee wishes also to avoid the use of farmland and the plan prevents the suggested village from disfiguring the crest of the North Downs when viewed from the south.

The MOTCP will now be consulted about the proposal and the County Council w'll invite Strood Rural District Council to prepare a detailed plan for the village in consultation with the County Planning Officer.

A NEW TOWN will be built at CWMBRAN

The Minister of Town and Country Planning has decided to create a new town for 35 000 people at Cwmbran in Monmouthshire. This decision follows a public enquiry held at Newport County Hall on October 6. The area of the new town will be that proposed in the draft designation order without modification.

and order without modification.

A suggestion that the area of the new town should lie to the north-east of the proposed site has been rejected because good agricultural land would thereby be lost, and because 't is thought that the proposed site will enable the new town to serve industry in the valley between Newport and Pontypool.

The proposal that there should be three separate townships in the area at Cwmbran, Pontnewydd and Croes-y-Ceiliog was also rejected, the Minister holding the opinion that an increase of population of the size proposed ought to be accompanied by the provision of proper social and other facilities such as a new town would be able to offer.

and other facilities such as a new town would be able to offer.

A number of other proposals for modifications of the designated area were made by various interested bodies, including the Co-operative Wholesale Society, but the Minister states that he does not see sufficient grounds for modification of the boundaries at the present stage.

In September, 2,343 MORE HOUSES were built in Britain than in August. The number of permanent houses built was 16.899, the second highest total of the year; 20,160 were finished in March. Up to the end of September. 147,266 permanent houses had been built in 1949.

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OURSELVES AND OLYMPIA

Olympia. This great event in the building world was born in a very modest way in 1880. It continued until 1895 at a level when "local cheapjacks set up their booths and called their wares, while coconut shies and hoop-la stands attracted a stream of customers," when it was established in its present form by the Montgomery brothers. Since that time, and year by year, the Exhibition has grown in size and importance until now, on its twenty-third occasion, it is larger than it has ever been before.

But as the exhibition has grown it has created a major problem. It has become so big that we are beginning to suffer from an embarras de nichesse. There is too much there for busy architects, builders and engineers to digest with comfort in the one day's visit which is all the time that most of them can afford. The JOURNAL has always tried to help its readers by pre-digesting for their benefit the fare which is offered, but the task becomes increasingly difficult as the Exhibition grows in size and scope. This year we have therefore reconsidered our whole method of approach and we now present the Exhibition in a new and more comprehensive way.

For a start, the actual stands, many of which are of interest purely as architectural creations, are described and illustrated in a separate article, and are not confused with technical information. Secondly, a number of the JOURNAL's pages has been given to a summary of the products and appliances of some of the exhibitors which are of special interest to Thirdly, we are publishing the most important feature of all, in the form of a series of three articles, the first of which appears in this issue, the opening day of the Exhibition. The second will appear next week, while the Exhibition is on, and the last will be printed on December 1, the closing day. The approach is new in that the articles will be written by a team of as many as nine recognized experts acting under a general editor. What they say can therefore be taken as authoritative. Since the members of the team have been asked to be as constructively critical as they wish, their contributions should be particularly valuable to everyone concerned with building. It is to be hoped that what they say will not only help our readers to make the best possible use of the exhibition, but that it will also have a long-term effect in mitigating some of the faults of the present exhibition, which are so largely the result of its excessive size. example, in this issue several of the writers complain about the unnecessary waste of time and energy needed to abstract the truth from the mass of advertising material provided, and they ask for clear, brief statements of technical fact from exhibitors. Another human request is made, which cannot sound in the least facetious to those many thousands who have emerged from previous exhibitions weary, hollow and battered to a coma. We may not want a return to coconut shies and hoop-la booths, but do let us have "plenty of comfortable seats on 'neutral' stands, spaced at close centres and occupied only by charming waitresses dispensing encouragement and drinks."

Since our team of experts speaks for a fairly representative section of those for whom the exhibition is designed to attract, their opinions should be taken to heart both by the organizers and the exhibitors when they next consider how this important affair at Olympia can be improved for everyone's benefit in the coming years.



The Architects' Journal
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THE NEW HOUSING MANUAL

The publication today of the new Housing Manual (replacing the 1944 Manual) is an event of some significance. As a larger and larger proportion of housing is done by local authorities, the guidance the Ministry of Health gives them by means of the Manual becomes increasingly important. I know that the architects at the Ministry have been working hard for a matter of years to make it all it should be, and the result is most impressive.

There are no real surprises—at any rate not for those who have been following recent housing developments, because the Ministry has made the ideas they are interested in pretty clear by means of various interim publications and exhibitions; they are continuing this policy at this month's Building Exhibition. The Manual nevertheless represents a firm step forward. The ideas I see as the most important are the stress laid on the better grouping of houses; the move towards a greater variety of plain types, getting away from the standard

three-bedroom house on which local authorities have been concentrating since the war; and the introduction of the three-storey terrace blocks (first exhibited at the Building Exhibition of 1947) to show how individual houses can be provided in areas where a fairly high density is called for.

These terrace blocks also, of course, allow a much more compact, and truly urban, type of layout, and the Ministry is clearly aware of the need for this. The new Manual gives a lot of attention to layout-in town and country-and illustrates several model layouts based on existing, but unnamed, sites. The illustrations all through are excellent. An innovation is the addition of elevations to the type plans: useful, because they show the possibilities of linking pairs of houses into larger architectural units and so on, but also somewhat risky, they may encourage local authorities to think they can adopt designs from the Manual as they stand instead of employing architects to prepare designs that take local needs and site conditions account.

OLYMPIA AGAIN

This issue appears on the opening day of the Building Exhibition, where your faithful correspondent, wearing two pairs of socks and his largest country shoes, will be ambling round the exhibits 'in his usual impenetrable disguise. Before you go there, there are two important matters to be brought to your notice. It is too late for you to send a gift for the Tombola but NOT too late for you to buy a ticket. I must also remind you that you had an admission ticket to the exhibition in your last RIBA Journal. Use it, and tear the strip off the bottom because that gets you a free tea in the RIBA rooms (over the

Addison Road entrance). For every-free ticket presented at the turnstiles Mr. Montgomery has most generously offered 3s. 6d. to the Architects' Benevolent Society, so the least you can do is to take advantage of this free gift and at the same time help to make somebody's old age a little more comfortable.

THE TAIL OF MY COAT

Those of you who read the letter published in last week's Journal from Austin Haigh, of Bradford, the Chairman of the Finance-City Archi-Department Sub-committee. must have felt a glow of pride on learning that the City Architect's Department of Bradford will in no way be subordinate to any other department. For nearly fifty years this department has defended its freedom. We do not know how many subversive attempts have been made in that time to destroy this proud, free band of architects. I cannot tell you of the subtle moves and countermoves, sallies and sidesteps by which this department has avoided subordi-For all I know they have never taken place.

Recently however as, perhaps, a kindly near-anniversary gesture, the City Council relieved the City Architect of the drudgery of designing and building houses. This, as I am sure my readers will agree, is just a hack's job. It will be a relief for the department to be able to concentrate on designing real architecture, the Baths and Art Galleries listed in Austin Haigh's letter.

I do, however, feel rather sorry for the City Engineer and Surveyor. How embarrassing for them to have this task put on to them. How difficult, when the different professions get on so well together in their complementary rôles, for one profession to have transferred to it another's job.

But what nonsense the whole business is. How ridiculous, when the country needs the wholehearted cooperation of every qualified man to get our towns rebuilt, that there still should be doubts as to the respective tasks of surveyor, architect, engineer

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Photographs taken by F. R. Yerbury during his holiday in Spain. Top, left, a typical new village, showing two-storey flats in the foreground. Top, right, a new university centre in Madrid. Left, a typical block of workers flats in Madrid. Above, a monastery in course of erection at El Escurial.

and builder. If, however, these professions are not allowed or are not able to co-operate in peace, then one remedy, as far as architects are concerned, is obvious, and has been practised for a long time by the trade unions.

Did I hear someone say that this is irresponsible, the sort of thing one doesn't say? Well, that is just too

A CAMERA IN SPAIN

With a shyness quite unbefitting a man with his long experience, F. R. Yerbury showed me the photographs he had taken during his recent holiday in Spain. Though Mr. Yerbury assures me he was out of practice, the photographs are excellent, and four of them are reproduced above. The hand which steadied countless cameras in the twenties has not begun to rock, and though not quite ruling the photographic world is yet, can one say, of cabinet rank.

The difference in the design of the uproariously—and insisted on treating various buildings is remarkable. Some are just traditional (as the village shown above), others have the heavy touch typical of totalitarian countries. The accommodation standards are not quite up to ours, but the standard of finish is, apparently, very high. The primitiveness of the methods of construction can be judged by the bullock cart (see above) which is used for carrying concrete, and by the fragility of the scaffolding.

THE GENERATIONS AT CAMBRIDGE

A colleague who went to Nikolaus Pevsner's inaugural lecture as Slade Professor at Cambridge brings back an instructive story illustrating the confusion that reigns when anyone talks about Victorian architecture nowadays. The lecture (which was, I am told, as informative and lucidly delivered as Pevsner's always are) was about Matthew Digby Wyatt. His undergraduate audience couldn't, however, be persuaded to take it all seriously-in fact they took it descriptions of Wyatt's buildings as some cunningly concealed joke.

At the same time, another lecturer was talking in Cambridge about nineteenth century architecture to an audience drawn from an older generation. This audience clearly admired, say, the Albert Memorial-it was one of the monuments they had been brought up to admire—and they rather resented the lecturer's disparaging attitude towards the products of the Victorian age. Thus, in one place four phases of the cycle of taste are found in operation simultaneously; the older audience that sincerely admires Victorian buildings, the conventional lecturer who regards them as an episode to be regretted, the undergraduate audience which merely finds them funny and the historian Professor Pevsner, who is sufficiently detached about them to take them seriously and discuss them objectively.

ASTRAGAL

BUILDING EXHIBITION:

we are publishing reports on the Building Exhibition journalist and an industrial designer. The first at Olympia by a team of experts. Members of the symposium of their reports, which appears below, team, who are all well-known in their own records their views on exhibition layout, and on the particular spheres, will remain anonymous. Their materials and developments they hope to find at reports will be preceded by the names of their Olympia. Next week they will discuss the exhibits subjects. Included in this team of writers are three they have seen and on December 1, the last day of engineers, three architects, the head of a building the Exhibition, they will present their summing-up.

In this and two subsequent issues of the JOURNAL, department at a famous University, a technical

SEE AT OLYMPIA WHAT THE SPECIALIST WANTS TO

How pleasant it would Insulation: Building Exhibition. This would not contain vast vistas of stands stretching to infailt vast vistas of status stretning to in-finity. There would be plenty of comfortable seats on neutral stands, spaced at close centres and occupied only by charming waitresses and occupied only by charming wattresses dispensing encouragement and drinks to visitors. Of course, there would not be the jumble of trades which make it impossible to locate the particular thing one wants to see. Nor (dare one say it?) would stands be-so ingenious in design that they would create a greater impression than the goods they are suppressed to exhibit they are supposed to exhibit.

Given the above conditions, I should expect to see an exhibition about one-third its present size with a very definite grouping of exhibits according to subject. Many trades now seem to have development associations or like bodies, and there seems little reason why all exhibits of a certain type should not be grouped under displays by such associa-tions. In this way some of the less satisfac-tory material might be eliminated, comparisons would become easier and duplication be minimized. All this would be advantageous to the architect, though possibly not so beneficial to certain firms.

Among the items one will especially look for this year will be development in building boards, especially composite types which, by taking advantage of varying qualities of dif-ferent materials, could satisfy such varied functions as weather exclusion, heat insula-tion and good finish. One also hopes for some sign of simple treatment of inexpensive sheet materials to give good sound absorption qualities.

Floor finishes are a perpetual problem and it is to be hoped that the more recent types of plastic and other tiles will be exhibited with full explanations of their uses. One does not expect to see any new developments in plastering, except perhaps in the use of vermiculite for heat insulation and sound absorption (not sound insulation!). However, roof decking and wall panel filling for light frame buildings should now have developed to an interesting stage. Unfortunately, these items will probably be so scattered that any useful comparative study will be difficult. Plastics have been so much discussed that

everyone hopes to find in them the answer to all kinds of difficult problems. Probably the best examples will be in sheet finishes and in plastic bonded building boards of various

It is also to be hoped that there will be a big drive by the makers of the various forms of heat insulating materials. This must obviously be the expanding market of the moment, as the scientific data of the past few years are now beginning to filter through into

But apart from new materials, as such, what every architect probably hopes to see is a really clear demonstration of technique. The firm which shows most clearly how to use its products is surely the one that is most used by architects—even if the product is not really quite the best for the job.



"Charming waitresses dispensing encouragement and drinks to visitors."

Services: I would like to see some uniformity in the presentaduced by the various exhibitors. Hitherto one has left the Exhibition with a bewilder-ing collection, ranging from sizable books and portfolios to pamphlets of such small dimensions that they are almost certain to be lost or put accidentally into the wastepaper basket. In addit.on, the amount of useful information contained in the publications varies greatly: in some it is full and clearly laid out; in others it is concealed beneath a mass of advertising puffs and other useless matter, and its extraction is a major operation; in others, again, the verbiage is there, but there is nothing beneath it, and one wastes a good deal of time before one dis-covers the fact. What is required is that, irrespective of any other advertising matter irrespective of any other advertising matter he may provide, each exhibitor should pro-vide more or less standardized data sheets— Information Sheets, for instance—giving the salient details of the exhibits. Thus, a maker of heating appliances would give details of class of appliance, fuel, thermal efficiency, maximum and average output, working temperatures, and similar relevant information as to performance, with perhaps an illustra-tion and table of dimensions, flue sizes, and the like. In fact, anything that may be useful as an aid to a decision as to the suitability or otherwise of an appliance for a given job. Even in the case of a rushed lastminute entry, a duplicated sheet of the standardized size could be used. Some makers might be unwilling to give such positive in-formation about their products, but they are the ones on whom it would not be worth

the ones on whom it would not be worth while wasting much time.

Now a word about the apparatus I would like to see. I am afraid that it will be as though, at the Motor Show, I hoped to find a car of Rolls-Royce standard at mass-production car price. But just as, in their own sphere, mass-production cars achieve a remarkably high standard of efficiency, perhaps something of the kind could be managed in heating equipment.

managed in heating equipment.

In the Rolls-Royce class there are boilers and automatic controls of the highest effiand automatic controls of the highest efficiency, but their high cost precludes their general adoption in "low-cost housing," in which it is necessary to watch the spending of every penny, if reasonable and economic rents are to be achieved. And though recent experimental work with warm air heating has had considerable success, there is no doubt that low pressure, gravity circulated hot water remains a very valuable means of transferring the heat of a central fire to other parts of the house, the more so when

transferring the heat of a central fire to other parts of the house, the more so when it is under automatic control.

The requirement, then, is for a mass-produced boiler of higher efficiency than the older types, but lower cost than the newer. If it could be a multi-fuel type, so much the better, but perhaps this is to ask too much. If it is to be for one fuel only, then that should be coke: but it must be able to that should be coke; but it must be able to burn for long per'ods without attention. And it must have reasonably accurate auto-

matic draught control. In conjunction with this an inexpensive modulating valve is needed, so that the boiler may be run at a temperature suited to hot water supply and to corrosion resistance, while the heating water temperature is varied to suit weather and other conditions. This valve should be under the control of a room thermostat: indeed, if cheap enough, additional economy could be achieved by the adoption of zone control by a second thermostat in houses with large windows facing south. The apparatus now available is very good but once again for too deer. is very good, but once again far too dear for adoption in the class of work of which we are now thinking.

Timber: In view of the present conditions in the timber industry, the architect who visits the Building Exhibition will expect exhibitors in this line to do more than show him methods of cutting costs, speeding production and saving labour and materials. As he is deprived of timber and finds that experiments in new materials and forms of construc-

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" I would like to see some uniformity in the presentation of at least a part of the literature produced by the various exhibitors,"

tion are often an expensive business, he is in need of advice on how to make the utmost use of the softwoods available. It is to be hoped that he will find at the Exhibition examples of increased ingenuity in the development of new uses for the timber available.

Science and technology can still contribute to the devising of economical ways of using hardwoods. In this respect the archi-tect will look for new developments in woodworking machinery; in the application of scientific design method in place of the traditional rule-of-thumb; in connections and assembly whether this be simple nailing, the modern timber connector or the use of adhesives; in the use of wood waste. and in the development of the secondary products, such as plywood and laminated wood. The "new" woods particularly should find an important place in any truly representative exhibition. (These, in the main, are the little known light hardwoods

main, are the little known light hardwoods which are newcomers to the industry.) Exhibitors in the timber industry could also do useful work by demonstrating the economic. practical and aesthetic qualities that timber has in the field of joinery, where it is seriously challenged, particularly in kitchen fitments. No doubt the structural use of timber, which has come to the fore in recent years, will be demonstrated at Olympia. In con-

will be demonstrated at Olympia. In con-nection with this one hopes to see em-phasis placed on preservation methods and

on fire retardants.

The visitor Steel: Steel: Building Exhibition should be able to locate all displays of the subject he is interested in with ease. Neither the industry nor the visitor benefit from the form of layout in which the exhibits of particular branches of the industry are scattered throughout the exhibition hall, for a great deal of time is wasted in aimless wandering. It can to

be assumed that the average visitor to the exhibition is more interested in specific aspects of building than in the multifarious activities of individual firms. He should, therefore, be able to make straight for that part of the building in which the subject he is interested in is displayed by various manufacturers.

Even if we cannot feel sure that the layout of this year's exhibition will be on these lines; we can feel more confident about the quality of the individual exhibits. From all we have heard so far we may expect to find that time spent in studying latest progress shown at the exhibition will be assumed that the average visitor to the

expect to find that time spent in studying latest progress shown at the exhibition will be well spent. In the field of steel it is hoped that the latest achievements of British industry will be shown in their proper practical applications. New sections cold pressed from light gauge steel deserve a prominent place, for these should be made the proper extensively used than they

deserve a prominent place, for these should be much more extensively used than they are at present in light building construc-tion—for purlins and rafters and for pre-fabricated units of houses. Building research has been developing rapidly in recent years. Its scope has been continuously extended and a remarkable degree of collaboration has been achieved between scientist manufacturer and condegree of collaboration has been achieved between scientist, manufacturer and consumer. It is hoped that the results of extensive work done by the DSIR and especially by the BRS will be shown in condensed form. It would be a great help if the Building Exhibition could be so arranged that a series of lectures and film shows could be combined with actual demonstrations on building sites. While models can be most instructive, the full size job will always carry greater conviction. viction.

Bricks: I am hoping to see the complete vindication of bricks and hollow clay blocks as a first-rate contemporary building material at this exhibition. In recent years there has been a lot of criticism of brickwork as a structural medium, yet this is a material which can be re-estabis a material which can be re-established as one of the key materials in a country's building programme by simple adjustments in the technique of site-operations, and refinements of the material itself.

The qualities of brickwork—permanence, solidity, attractive colours, good weathering properties, and low maintenance costs—go a long way to compensate for its drawbacks when compared with alternative methods of



"Equipment for increasing the output per bricklayer hour."

building. At this year's exhibition I will expect to find those few improvements which will put brickwork ahead of rival materials and types of construction. I will be looking for developments in the texture finishes of machine-made facings. A more varied selection here is very necessary now that the incomparable hand-made brick is so much more expensive.

Problems of sound transmission have increased considerably since the thickness of partition walls, etc., has of necessity been reduced to the minimum, and it will there-fore be of interest to see if any developments have taken place recently to increase still further the insulation quality of the hollow

lt is expected that among other clay products which will be on view will be the latest trends in the design of roof and floor tiles. Amongst the former are the pantiles and Roman, Spanish and other interlocking tiles which, because of their relative lightness and applications are supported by the second lightness and specific these descriptions. small pitch, are especially popular these days on account of the economy in roof timbers which results from their use.

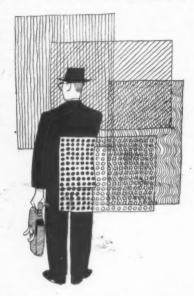
Much interest has been aroused within recent years in the development and expansion of mechanical plant and equipment for increasing the output per bricklayer hour. The cost of certain of this patent equipment, especially that which is concerned also with especially that which is concerned also with erection, can perhaps be justified only when employed on a large scale, but this limita-tion does not, of course, apply to the smaller devices such as the jig and the brick hoist. Commended also are jacks and similar appliances by which the scaffold platform is readily adjusted and maintained at optimum levels, so reducing the physical exertions of the bricklayer with a corresponding increase in output. It is hoped that these patent systems and devices will be well represented at the exhibition and that there will be available reliable technical information based upon their performance under actual site conditions.

Glass: There has been some controversy from time to time as to whether or not exhibition stand design should Glass: whether of not exhibition stand design about be rigidly controlled and designed by the official architect to the exhibition. This might produce a very tidy appearance in general, especially when seen from above. But as we are seldom given the opportunity But as we are seldom given the opportunity of viewing the exhibition as a whole from this angle owing to the somewhat grim back wall of the gallery stands, little would be gained. Whatever the advantages of coordinated design might be in other exhibitions, it would undoubtedly be a great detriment to exhibitors at the Building Exhibition if they were prevented from demonstrating their materials or structural techniques in ing their materials or structural techniques in

It would, however, be an improvement if stands could be grouped a little more neatly according to the nature of their products. If

according to the nature of their products. It there are seven stands representing one industry, it should not be necessary to walk about all over the exhibition to find them, thus risking missing some altogether. Stands should undoubtedly show appropriate applications of products, in preference to a vast collection of individual exhibits, and efficient technical information should be available for the architect or designer to take available for the architect or designer to take away in the form of leaflets or booklets. Diagrams and drawings in many of these programs and drawings in many of these are quite useless owing to no graphic scales being shown on the original drawing. By the time the printer has reduced the scale drawing to suit his layout, a scale can no longer be applied, and half the value of the drawing is lost.

And now a word about what we expect to Exhibition. Developments, if any, are usually of a mild character, such as new applications of existing glasses, a few new



" A few new figured rolled patterns to choose from."

figured rolled patterns to choose from and possibly some innovations or modifications in fixing technique. The latter are often to be discovered almost anywhere in the Exhibition but on the stands of the glass firms, depending upon the nature of the fixing device, the metal and plastic industries are the most likely source outside the patent glazing specialists. From advance publicity it appears that an outstanding feature this year will be the hermetically sealed, double-glazed window unit.

glazed window unit.

The design of frameless plate glass doors has been amended and considerably improved since their first appearance at the Building Exhibition of 1947. The thickness of the glass has been increased to ½ in., and the new standard metal fittings now accommodate a variety of shapes of bar handle, in hardwood, glass, metal and coloured catalin, and all are now available for early delivery. Another feature to look out for is a new glass louvre installation which, judging by descriptions, sounds like a valuable addition to the architect's range of components.

Concrete: A display of structural techniques which would excite admiration and delight even in the mind of an engineer weary with patching up the structural faults of others is my first requirement for a Building Exhibition. I expect to see, and have an avuncular affection for, the old traditional types of construction, the habits and failures of which the technical papers are constantly, and embarrassingly, bringing to our attention. But this bi-annual exhibition should inspire and titllate the mind by showing, firstly, the progress made by manufacturers over the past two years, and, secondly, by showing the ideas which, though undeveloped, will be the structural techniques of the future. This last is very important, as by becoming familiar with revolutionary ideas expressed tentatively in exhibition halls, the architect, engineer or builder is prepared to accept the same ideas for practical use "in the field."

The volume of reinforced concrete work in this country is steadily increasing, and the most spectacular developments are in the sphere of shell concrete construction and of pre-stressed concrete. Many new buildings in shell concrete have been completed in the last two years, and the photographs and models on view at the exhibition will refresh the mind as to what can be done with this form of construction.

Prestressed concrete, with its great

Prestressed concrete, with its great technical advantages and economy in steel compared with ordinary reinforced concrete, has now the full backing of the authorities. There are several firms engaged in the manufacture of prestressed units who will be exhibiting, but there are no great examples of completed work. Here is an opportunity for an enterprising firm to attract the viewer's eye with experiments in an economical and potentially pleasing art. During the exhibition the Prestressed Concrete Development Group of the Cement

During the exhibition the Prestressed Concrete Development Group of the Cement and Concrete Association have arranged a series of lectures, one being given each evening, on the various theoretical and practical aspects of prestressed concrete, and the BRS are putting on an exhibit of how to make good concrete. Both these items merit serious attention, but there are several further problems in the development of reinforced concrete construction to which I will be seeking the answer.

For instance, the surface finish of cement

For instance, the surface finish of cement is still not satisfactory. This problem is as old as the material itself, and I have never yet seen an ideal solution. Then, again, the use of steel and aluminium for shuttering as alternative materials to wood has not yet been perfected. I will be anxious to know also what the latest developments are in lightweight concrete and to know the relative merits of lightweight aggregates (e.g., formed slag) and foamed cement-sand mortar. Lastly, I will look for ideas on how to save labour costs, still the greatest bugbear of today. The last development I will be expecting to see is one which, on a long-term basis at any rate, could prove a most fruitful source of economy during site operations. That is in the elimination of any manhandling of concrete between feeding the batcher and the actual pouring of the concrete, i.e., a good set-up of batcher, mixer and pump arranged in line of operation.

Materials: One must assume that some people take the Building Exhibition seriously, otherwise the exhibitors would not spend such vast sums of money on all manner of string and trickery in an attempt to out-

" An exhibition of exhibition stands."

shine their neighbours and to boost their particular materials. Nevertheless, one's recollections of past exhibitions consist more of impressions of stand designs than of any really effective presentation of information, which ought, presumably, to be one of the main objects of the Exhibition. One day the whole business must be exploded with an exhibition of exhibition stands.

Of course, it would be very dull if there were no scope for imagination in the presentation of the materials which are displayed, but the whole Exhibition is at present so vast that one is apt to be lost in a maze of exhibition technique and to be unable to obtain easily and quickly any factual information. Architects are very busy these days filling in forms, and like to be able to find information quickly. Furthermore, they like their information to be authoritative and devoid of trappings. It would, perhaps, be asking too much for exhibitors to show only the snags connected with their materials, but a little honesty goes a long way to gaining an architect's confidence.

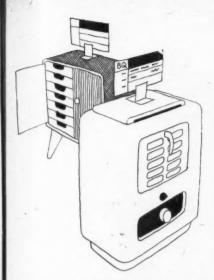
honesty goes a long way to gaining an architect's confidence.

One of the first things that one may reasonably expect to learn when visiting the exhibition is whether there are any new materials on the market, and, if so, what there is to be known about them. There ought to be an "independent" stand, in a prominent place, put up by the promoters where one could obtain a picture of what is exhibited, with particular regard both to what is new and what has proved especially useful in meeting the present difficult conditions of building. Without wasting time, and, not least, a great deal of energy, one could find out what there is on view, how it is used, what information there is about it, and where it can be obtained. The details would be filled in and the information expanded by reference to the individual manufacturers' stands. And here one would hope to find out easily particulars about availability, cost, properties, appearance and experience in practice.

From both the exhibitors' and viewers' points of view it would be easier if the materials exhibited were clearly differentiated from those forming the background of the stand itself. It is no good showing just one new unit or sample of the material in question; visitors want to see what it looks like new, what it looks like in practice (necessarily by means of photographs), what it looks like when weathered, and how long it takes to weather. All this would be very technical, but of more use than much of the advertising technique upon which so much effort is spent. Architects never want to know how many millions of yards of a material have been used; they want to know why it has been used, how it was used, and whether it would be of value to them.

If the representatives on a stand really know all about the materials they are selling, so much the better; if not, let them distribute informative literature. Perhaps this literature could even be in standard form.

Miscellaneous: Every comment I have ever seen about the Building Exhibition has asked that the exhibits shall be grouped, and has then gone on to explain why the pig-headedness of manufacturers always prevents this from being done. Most of us, of course, go to the Exhibition not to look at a few specific stands, but to obtain a general impression of what manufacturers have been up to during the last two years, and to make notes of any fittings or constructional methods we might be able to use on our own jobs. We must



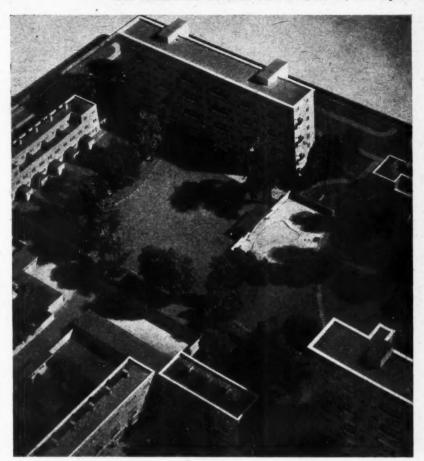
"I want to see almost everything labelled; the BQ boiler which costs fx and has an hourly rating of so many B. Th.U."

therefore take at least a quick glance at everything, and, as a purely personal view, I am just as content to pass from one brick to the next via a pair of concrete mixers and a boiler or two, and to make my meal hors deuvres fashion, as to have large separate slabs of the different courses.

But there is a lot which the manufacturer could do to help me. And it is in the hope of attracting their attention that I am writing this. Even if I am not frantically busy, I have not a lot of time to waste. And there are about 500 stands. Of these, about 150 will not interest me, and another 100 will probably need no more than a quick glance; but that leaves about 250 which I must look at long enough to see if there is anything I ought to know about, and then, if there is, I must find out about it. Even if I could get away with two minutes at each stand (and on a lot of them I must obviously spend far more), that takes the whole of an 8-hour day without any meals. How, then, can the manufacturer make my job easier?

I want to see almost everything labelled; the BQ boiler which costs £x and has an hourly rating of so many B.Th.U.; the patented roof construction which does so and so and is built in such and such a way; and the new flooring which is made of reconstituted walnut shells with a synthetic binder, and costs from y/- a yard upwards. Somewhere near each exhibit I want to find a leaflet which amplifies the label, preferably with dimensioned drawings, and tells me, briefly, anything else I ought to know. And I said leaflet because the handsomely produced volumes which are called "brochures" or "literature" make it impossible for meto zip up my portfolio. (That was why I carefully avoided buying that hopelessly thick catalogue.) I don't mind having the more elaborate stuff later on, because by the time I actually want to use a product I shall probably have to write for current prices.

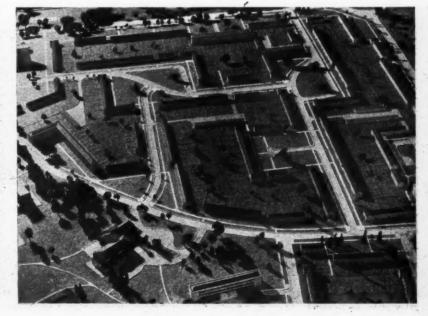
And that brings me to this price question. Salesmen must try not to hedge. Of course, "the price varies with the size of the job," and whether it is in Cornwall or Central London, we have all had enough experience to know that. Evasiveness about price only makes us suspect that it is really higher than it should be. Lastly, a word about salesmen. Regular staff may be busy, but could there be, on each stand, at least one person who can answer technical questions, or several technicians if the products are too varied for one?



MOH MODELS AT OLYMPIA

These photographs are of models exhibited by the MOH at the Building Exhibition, Olympia. Above is part of a model illustrating the lay-out and grouping of buildings in development areas. This shows a mixed form of development which makes it possible to group buildings of contrasting and varying heights and to provide a proportion of houses or maisonettes with small gardens, suit-

able for families with children. Below is part of a model which illustrates the possibilities of a mixed form of development in outer-ring areas. It has been designed to show three-dimensional grouping in a housing area having a net density of 35 habitable rooms per acre. (These photographs appear in the MOH Housing Manual published today by HMSO at 3s. 6d.)



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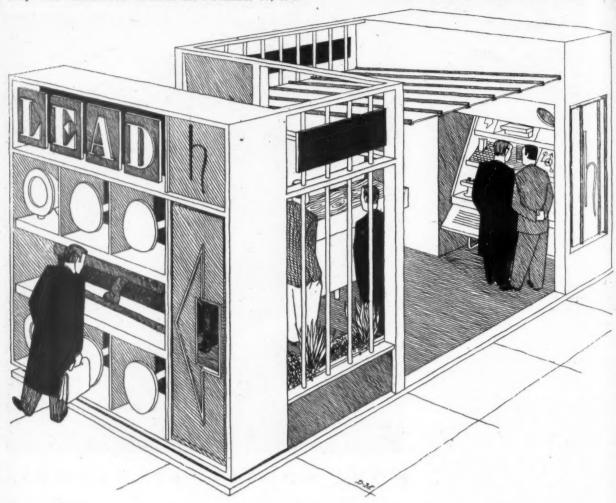
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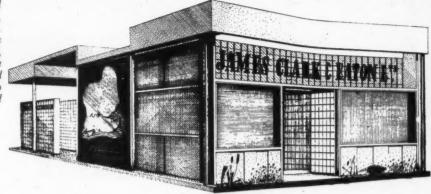
S I A N D S AT THE BUILDING EXHIBITION



Above: The Lead Industries Development Council's stand designed by the GDMK Design Group (George Dunton, D. Dewar-Mills and M. Kenchington). The general colour scheme is of light and dark grey panels within a white frame and trims. A deep red colour, strongly lit, is used in the horizontal and vertical recesses.

Left: stand for C. F. Anderson and Son, Ltd., by G. Ransome-Smith. The lower office of the two-storey office unit is faced with fluted asbestos, painted in stone colour with asbestos paint. The upper office is painted greyblue, and the triangular fins are painted grey, white and lemon-yellow. The canopy is constructed of hard board and painted light brown. The display table of horse-shoe shape is covered with plastic in pastel shades.

This stand for James Clark and Eaton, Ltd., designed by Wells Coates, is based on a grid built up of 3-in. by 2-in. joists, coloured white. The other colours used in the design of the stand are red, blue and yellow. The stand shows the use of glass in its proper setting, and one section is a 14-ft. by 10-ft. photo montage showing sheet glass being lifted up by suction pads.



Stand for the Cement Marketing Company by Kenneth Bayes to show the use of terrazzo, rendering and colorcrete. The main structure is a rendered finish on soft building board, with a muslin velarium, over the stand, supported by a concrete pole 4-in. in diameter tapering to 3-in. at the top. The pole also supports a sign which is the trademark of the company.

Below, the stand for the Ruberoid Company by Eric Brown and P. H. G. Chamberlain. The main structure is aluminium painted blue. A feature of the stand is the display of steel deck which forms the first floor, showing the various forms of this structural material as well as a variety of the firm's weather-proofing surfaces which can be applied. The major exhibit on the lower level of the stand consists of a number of replicas of various building details showing the application of the firm's products.

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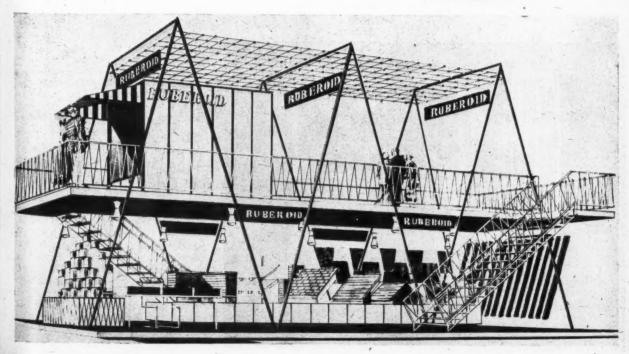
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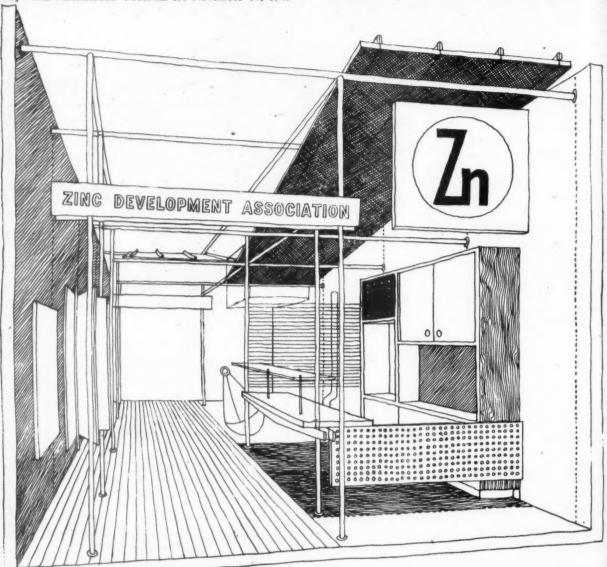
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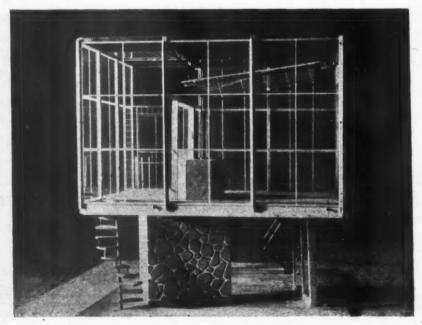
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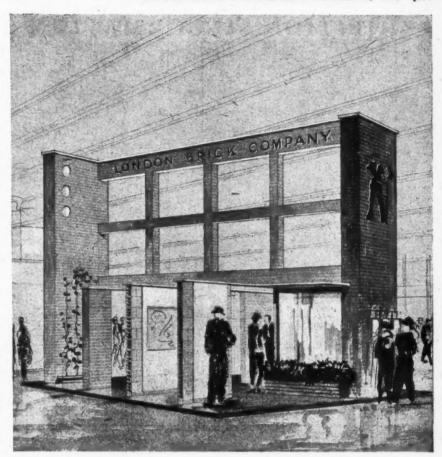
Above: The framework of this stand, which was designed by Stefan Buzas, of James Cubitt and Partners for the Zinc Development Association, is of galvanized tubular steel. The walls, of perforated zinc, are dark green. There are two types of zinc roofing, inverted so that the construction may be studied from below. Fittings are pink, white, saxe-blue and lemon yellow.

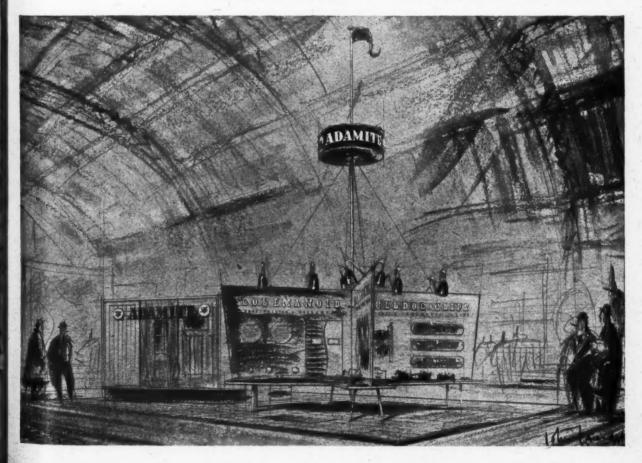
Left: the stand for Williams and Williams, Ltd., by Arcon, is a steel structure. The upper floor, which is supported on four steel tubes and is given lateral stability by a stone wall, is designed to demonstrate the different methods of mechanical window opening. All steel work and bars of the frame on the upper floor are jasmine yellow. The upper flooring and staircase are teak, the stair treads being supported on steel channels cantilevered from a central steel tube. The escape staircase is dark grey. Ground floor windows are picked out in smoke grey and beige. Steel tubes on the ground floor are red. The wall is of reddishbrown polished York stone.

STANDS AT THE BUILDING EXHIBITION

Right: the stand for the London Brick Company designed by Fairweather and Jordan, is constructed of bricks and clay blocks. Light sandfaced Saxon bricks are used in one pylon, and sandfaced Hicks bricks (dark brown) are used for the office end. Other materials include: Stewartby rustic bricks, common Flettons, allular rustics, grip partition bricks, Keyd-Flettons, Ralsey-Keyd blocks. The ailing of the office is constructed of allular flettons. A variety of flooring and partition-blocks have also been used. A large photo montage on the thand shows mechanization of manufacture of bricks, and recreational facilities for workmen employed by the company.

Below: the stand for Adamite Co., Ltd., designed by John Lansdell, has an office consisting of doors in their natural colouring, one with a walnut weeer and another with an oak veneer. The four inset panels have white lettering on red panels with a pennant of painted aluminium at the top of the flag-pole. The floor is of white tiles, with a light-green tile edging.





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EXHIBITION INFORMATION

In this issue will be found a loose leaflet, giving a complete alphabetical index of exhibitors at the Building Exhibition, accompanied by a plan showing the position of the stands. In addition we have compiled, for the further convenience of architects who will be visiting Olympia, a short summary of the exhibits which are of special interest to the profession. The information, given below, though comprehensive, does not pretend to be complete and should be used in conjunction with the general list.

PRELIMINARY NOTICES

THE ADAMITE CO., LTD. STAND 87.

Manufacturers of flooring and fixing products.

Exhioits: Adamite products, which include panel and flush doors, Co.emanoid proofers and hardeners, Ellicem cement pa.nt, Redalon liquid and Bull Dog clips are exhibited. The Junior Bull Dog floor clip designed for housing where economy is a precominant factor.

AIDAS ELECTRIC, LTD. STAND 71.

Manufacturers of automatic electric water

Exhibits: automatic electric water heaters to meet the various requirements of nome and industry. The coal electric Sadia which stores hot water heated by a back boiler in winter and by electricity in summer. A heater with a built-in cold water tank which can be installed without expansion pipes and separate down-services.

ANDERSON CONSTRUCTION CO. LTD. STAND 285.

Manufacturers of building board fixing equipment.

Exhibits: The AND Wedge method of fixing building boards, the AND Secret fixing method and cut-away models of AND partitioning are displayed, showing treatment at corners, etc. A range of Building Boards including Formica, Traffolyte, Warerite and Swedish hardboards and their uses are exhibited.

D. ANDERSON & SON, LTD. STAND 116.

Manufacturers of roofing felt and paint.
Exhibits: a range of the Company's insulating, roofing and damp-proof course materials and demonstrations of various proprietary roofing systems, including Thermotile, Durodek and Macasfelt. Examples of Thermosteel insulating decking and Thermolock aluminium insulated decking.

ASCOT GAS WATER HEATERS, LTD. STAND 244.

Manufacturers of gas water and space heaters.

Exhibits: a complete range of instantaneous gas water heaters, built-in balanced flue multi-point gas water heater, portable gas-fired space heating equipment, gas-heated towel rails, convector heaters and overhead gas-fired radiant heating appliances.

A. J. BINNS, LTD. STANDS 517 AND 519.

Manufacturers of architectural ironmongery and fencing. Exhibits: Dryad door and window fittings, a new type of coin-collecting lock and panic boat cloakroom https://documents.com/fittings.various types of fencing and gates.

BOLTON GATE CO., LTD. STAND 113.

Manufacturers of collapsible and shuttertype gates.

Exhibits: The Bolton patent shutter gate, boin electrically- and hand-operated, made in steel or aluminium alloy. Examples of flat-plated shutter gates in steel or aluminium, Supereze gate, bar counter gate and other types. A new radio-operated shutter gate and an all-glass door controlled by a detector on one side and photo-cells on the other.

BRATT COLBRAN, LTD. STAND 247A.

Manufacturers of fireplaces and domestic heating appliances.

Exhibits: solid fuel, gas and electrical heating appliances which are on the approved list. Heating equipment for industrial and large-scale housing projects.

BRITISH ELECTRICAL DEVELOP-MENT ASSOCIATION. STAND 94.

Exhibits: a variety of EDA publications, including electrical water heating and electricity in schools. Illustrated report specially prepared for architects. Included on the stand is a diagrammatic explanation of correct procedure for water-heating installations of the all-electric and coal-electric types. The display incorporates actual heaters, sectioned to show connections and construction, with circuits piped in copper tubing.

Technical advice and assistance are available on the application of electricity to various types of buildings.

BRITISH HERMESEAL, LTD. STAND

Manufacturers of metal draughtproof window and door equipment.

Exhibits: standard types of doors and sash and casement windows, both metal and wood, fitted with draughtproof equipment.

BRITISH STANDARDS INSTITUTION. STAND 308.

Exhibits: a selection of the British Standards and British Standard Codes of Practice applicable to the building industry. Special attention is drawn to the BS Handbook No. 3, "Building Materials and Components for Housing," which is a summary of 260 British Standards of particular interest in the field of housing.

BRYCE, WHITE & CO., LTD. STAND 84.

Manufacturers of doors, wallboards and all types of joinery.

Exhibits: standard and special types of doors, manufactured to BSS or the architects' own requirements. Mouldings for all building purposes.

A. A. BYRD & CO., LTD. STAND 304.

Manufacturers of waterproofing, hardening and acid-resistance materials for concrete mixes.

Exhibits: a demonstration of waterproofing to brickwork, decorative finishes and standard cement rendering. Densification, acid and oil resistance, for industrial floor in concrete, granolithic and terrazzo, with various finishes in pre-cast tiles, and monolithic construction. Tricosaled Cement Grout surface treatment for waterproofing existing brickwork, concrete and cement renderings. Interlocking steel shuttering for in situ concrete construction with a demonstration of the assembly of steel forms for floors.

CELLON, LTD. STAND 171.

Manufacturers of paint, lacquers and decorative finishes.

Exhibits: decorating materials for the building trade, Cerrux decorative finishes in gloss, satin and flat, Currusco water paint and Cerrusco texture paint.

CEMENT AND CONCRETE ASSOCIATION. STAND 250.

Exhibits: a number of panels describing the services which the Association offers the architect and builder. These include information and advice on the use of cement and concrete given by the Association's technical staff and a display of literature issued by the Association.

CEMENT MARKETING CO., LTD. STAND 117.

Manufacturers of Blue Circle products.

Exhibits: Blue Circle products with special attention on materials for decorative work. Snowcem Waterproof cement paint is shown in its standard range colours on different types of surfaces, as also is Cullamix Tyrolean finish. A new product, Cemprover, a liquid for use with Snowcem cement finishes and concrete is shown. Other exhibits include the use of Colorcete for facings, terrazzo and precast concrete in a wide range of colours, Blue Circle cement/Hydralime sand mixes for mortar and plaster, and specimen panels of S.D. bricks. Demonstrations of the methods of mixing and applying the Blue Circle products. A prestressed concrete unit is also being shown to indicate developments in this form of concrete construction.

CEMENTONE (JOHN FREEMAN, SONS & CO., LTD.). STAND 40.

Manufacturers of coloured paints and varnishes.

Exhibits: film shows of "Cementone Helpful Hints" giving advice in connection with cement paving work, cement wall renderings and the decorating of difficult surfaces. The stand also contains samples of the various Cementone products.

JAMES CLARK & EATON, LTD. STAND 216.

Manufacturers of glass.

Exhibits: Double-glazing units, armourplate glass doors, Vitrolite wall and ceiling facings, Insulight glass blocks, plyglass, processed glass and glass ventilators.

COAL UTILISATION JOINT COUNCIL STAND 239-240.

Exhibits: a convector fire, a fire with back boiler, a free-standing stove and cooker. Alternative types of convector fires to provide background heating in small houses.

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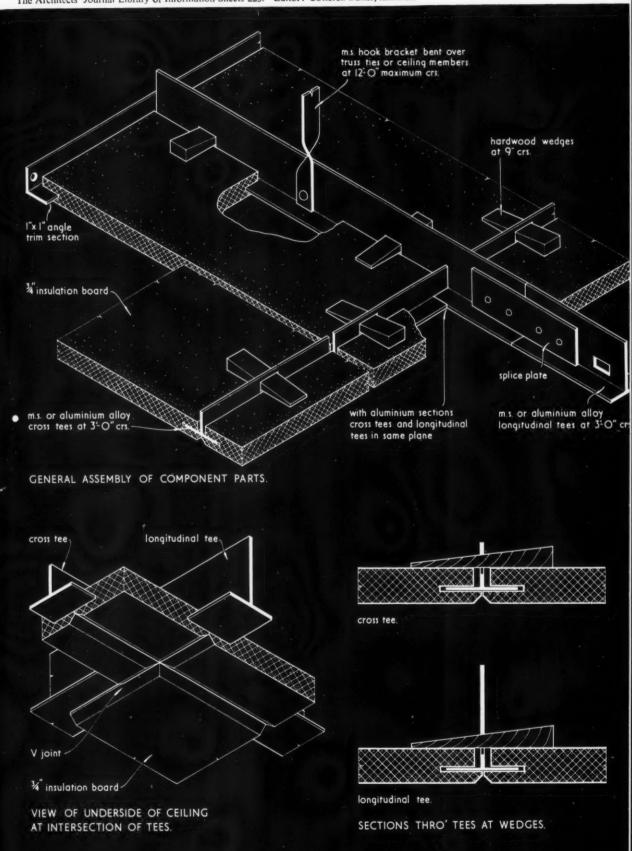
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The Architects' Journal Library of Information Sheets 223. Editor: Cotterell Butler, A.R.I.B.A.



22.D13 ANDERSON WEDGE METHOD OF INVISIBLE FIXING

This Sheet describes a system of board fixing for suspended ceilings in which all fixing members are concealed behind the ceiling face. 3-in. insulation board is used which gives a high thermal insulation value. The suspension and jointing members are of mild steel or aluminium alloy tee sections, which adequately support the insulation board panels.

The lower edges of the panels are chamfered and all that is seen from below is the surface of the boards with V joints.

The system is an alternative to the wedge method (see Sheet 22.D12), the difference being that the full thickness of the \(^3_4\)-in. board does not rest on the flanges of the tee sections.

General System

The flanges of the tee sections are inserted in machinemade slots in all edges of the panels, those portions of the panels which rest on the tee flanges being wedged at 9 in. centres with hardwood wedges. The maximum sized panel for use with this system is 3 ft. square.

Compiled from information supplied by :

Anderson Construction Company, Limited.

Address: Clifton House, Euston Road, London, N.W.1.

Telephone: Euston 7465.





rebated joint weak concrete filling precast main flue concrete refractory stack blocks concrete 42" flashing blocks controlled warm controlled warm air outlet to bedroom air outlet to bedroom m.s. anchor clamp ceiling partition, 2'-0" 2'-0" Ist. floor asbestos-cement controlled warm air duct warm air outlet to bedroom patent A type lintel block m.s. heater chamber dry sand controlled filling air supply for combust osbestos-cement ion purposes fishtail unit conveying air to heater chamber wall ties wall air supply 2-0" PART SECTIONAL VIEW SHOWING CONVECTION VIEW OF COMPLETE CHIMNEY BREAST AND STACK. HEATING TO BEDROOMS.

30.C2 'TRUE FLUE' DOMESTIC FLUES 2: WITH OPEN FIRE AND CONVECTION HEATING (Patent No. 567066. Regd. Design No. 843342)

This Sheet, the second of two dealing with the True Flue method of domestic flue construction, gives details of the flue arranged with an open fire and convection heating. Sheet 30.C1 describes the system generally and gives details of the flue in combination with a convector heating stove.

Construction

The construction of the chimney breasts and stack is similar to that described on Sheet 30.C1.

"A" type lintel block: This is made of refractory concrete and forms a streamlined non-eddy-making connection between the fire and the flue. The block combines the usual "gather-over" and lintel in one unit, and since there are no horizontal or irregular surfaces soot cannot settle.

The surfaces directly above the fire are rapidly warmed, resulting in improved combustion of gases and reduction of smoke.

The underside of the block has a weir-shaped front and conforms with the line of the standard fireback; the top is rebated to take the main flue. Heater chamber: This is of mild steel and is shaped around the fire back and lintel block as shown. A gap of $\frac{1}{2}$ in. filled with sand is provided between the fire back and the heater chamber to assist heat transmission and to allow for expansion. Two flanged outlets at the top of the chamber connect to the asbestos-cement warm air ducts.

Fixing

Fixing drawings are supplied with all jobs and each block carries an identifying symbol which is also marked on the drawing.

Compiled from information supplied by:

True Flue Limited

Address: Convector House, Acacia Road, St. John's Wood, London, N.W.8. Telephone: Primrose 7161/2.

E. K. COLE, LTD. STAND 420.

Manufacturers of electrical light fittings

Exhibits: Ekco fluorescent light fittings. Thermovent heating is represented by the newest models, including the Thermombe range of tubular heaters.

W. H. COLT (LONDON), LTD. STAND

Manufacturers of cedar roofing shingles, ventilators, plaster lathing and waterproof

Exhibits: a paraboloid section of a ceiling using Colterro electrically kilned plaster lathing as a base. Percolation and compression graphs of Coltenite, the cement waterproofer, together with a range of industrial and domestic ventilators marketed by the associate company, Colt Ventilation, Ltd.

COPPER DEVELOPMENT ASSOCIA-TION. STAND 272.

Exhibits: the uses of copper in the building industry. Copper sheet and strip is shown as a roof covering and as damp-goof courses. Examples of copper hot and cold water waste and sanitation pipes. The use of copper and its alloys for boilers, doors and window furniture, window frames and electrical fittings.

THE CRITTALL MANUFACTURING CO., LTD. STAND 88.

Manufacturers of metal windows and pressed-metal products.

Exhibits: Hot-dip galvanized standard metal windows of all types, standard french doors, aluminium windows of all types (the Crittall-Luxfer aluminium double-hung sash is a new product of the company), ressed-steel products, radiator casings, etc., sliding folding doors, with examples of "awning" and "projected" windows, and shool windows of all standard types and designs.

CYGNET JOINERY, LTD. STAND 424.

Manufacturers of joinery and woodware. Exhibits: a selection of mass-production joinery products and joinery constructed to architect's specification. Doors manufactured to the BSS 459. Sliding sash window with the Unique balance and sandard kitchen units. Single and double-glazed Rowhill window and draught-proof door are also exhibited.

DAVIS PARQUET RESURFACING, LTD. STAND 443.

Flooring contractors.

Exhibits: the uses of Austrian oak parquet flooring, and Austrian oak tongued and grooved blocks with a hollow clay base for fixing. Rubber flooring of various types and designs.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH. STAND 453 AND 455.

Exhibits: the work of the Building Research Station, the Forest Products Research Laboratory, the Chemical Research Laboratory and the Joint Fire Research Organization in the building industry. Ways are shown of using and handling new materials and increasing the efficiency of the building industry. A display of concrete surface finishes that have been exposed in a northern industrial city for fourteen years. The BRS exhibits constructional details to show how thermal insulation can be obtained in domestic housing. An exhibit has been arranged to show how faulty construction may lead to an outbreak of dry rot. Methods of preventing dry rot by the correct design of new buildings and the types of preservatives used to protect wood are illustrated. A colour film on the spread of fire is being shown by the Joint Fire Research Organiza-

tion. Films of practical interest to the building industry are being shown daily in the DSIR cinema at Olympia; details available at the DSIR Stand.

G. H. DOWNING & CO., LTD. STAND 136.

Manufacturers of clay roofing tiles.

Exhibits: clay roofing tiles of the Acme brand, including plain red machine-made tiles, sand-faced tiles in various shades, and various fittings including hips, valleys and ridges, etc. Floofing tiles are also displayed. A short film showing the various processes in the manufacture of clay roofing tiles is being shown during the Exhibition.

DUNLOP GENERAL RUBBER GOODS DIVISION. STAND 172.

Exhibits: types of rubber and sponge-backed rubber flooring.

ENGLISH JOINERY MANUFAC-TURERS' ASSOCIATION. STAND 294.

Exhibits: casement windows with larger framing and casement sections and a more orthodox type than those of the immediate post-war years. Types without bars and with horizontal or vertical bars are on view. A spring balance type sash-window entirely new to this country. The full range of EJMA flush and panel doors made to BSS, external door frames, including types with fanlights and winglights, with or without transoms. The EJMA standard range of twenty different kitchen units are also shown.

THE EXPANDED METAL CO., LTD. STAND 86.

Manufacturers of expanded meta

Exhibits: reconstruction of solid and hollow partitions and suspended ceilings with BB Lathing and Ribmet. The use of Vermiculite light-weight aggregate plaster and the use of Exmet in reinforced brickwork.

EXPANDITE, LTD. STAND 1,

Manufacturers of Seelastik and caulking compounds.

Exhibits: sealing compound in tubes with a special nozzle for easy application is exhibited for the first time. A demonstration of glazing with the Expandite hand gun and caulking compound is being given.

FERGUSON EDWARDS, LTD. STAND 242.

Manufacturers of paint and varnish.

Exhibits: paint and varnish finishes as applied to every-day use. A section of the stand is devoted to Edlac Cromotonics, which is the scientific application of colour to industrial premises. Books on this subject are available outlining the general principles of colour application, together with leaflets on "Colour in Factories," "Colour in Schools," "Colour in Hospitals," and "Colour Advisory Department of Edlac is available at the stand to give advice on the use of colour in factories and public buildings. The object of the Edlac Industrial Colour Advisory Department Service is to analyse conditions of individual industrial premises and propose scientifically planned colour schemes by submitting detailed specifications for the painting of all equipment and surroundings.

FIBREGLASS, LTD. STAND 221.

Manufacturers of thermal insulating material.

Exhibits: Fibreglass rigid sections. Made of Fibreglass insulating wool formed accurately to shape for steam pipe and hot and cold water pipe insulation; Fibreglass

sewn sheets for boiler insulation; Fibreglass bitumen bonded, manufactured from ingntly telted fibres bonded with bitumen for the insulation of prefrabricated panels, walls, and ceilings and of walls, ceilings and floors, both in temporary and permanent prefabricated and traditional type constructions; Fibreglass quilt, lightly felted fibres backed on both sides with kraft paper and thread sewn for the thermal and sound insulation of floors, walls, partitions and ceilings; Fibreglass rigid boards, used for walls, ceilings and roofs; Fibreglass air filter units, constructed of Fibreglass filter fibres in the form of compressed mats, faced with stamped metal grills.

FISHER & LUDLOW, LTD. STAND 206.

Manufacturers of steel sinks and office equipment.

Exhibits: a full range of stainless steel sinks, including the new double draining board unit, and also vitreous enamelled and stainless steel sink bowls. The Bendix Home Laundry. Flowstyle unit-planned equipment built up from standardized mass-produced steel components.

FLEXO PLYWOOD INDUSTRIES, LTD, STAND 82.

Manufacturers of metal faced plywood and doors.

Exhibits: Flexoply waterproof plywood faced with natural decorative veneers, sheet metals and sheet plactics. Flexo flush doors with cores of Dufaylite for lightness or Onazote for thermal insulation. Examples of the use of Flexometal plywood faced with a variety of sheet metals, such as aluminium.

W. N. FROY & SONS. STANDS 524, 526 AND 528.

Manufacturers of sanitary appliances.

Exhibits: the latest sanitary appliances for schools and hospitals, the Froy lavatory basins and closets for schools and modern sanitary equipment for hospitals, including sinks and sterilizing equipment.

GAS COUNCIL. STAND 267.

Exhibits: examples of the importance of good ventilation and various methods of constructing flues, the designs of terminals and air bricks. Space heating in small houses and a wide range of gas appliances.

GIRLINGS FERRO-CONCRETE CO., LTD. STAND 247.

Manufacturers of Ferro-concrete products and artificial stone.

Exhibits: Girlingstone Ellmoor finish in various colours. The Girling hollow beam for floors and roofs, Magna Light roof and pavement lights, gas flue blocks and fire-places.

GRAVINER MANUFACTURING CO., LTD. STAND 432.

Manufacturers of radiators and steam heating equipment.

Exhibits: include the display and demonstration of hot water and steam heating aluminium radiators, incorporating both panel type and sectional type, together with full range of fittings, control valves and associated equipment. Also pre-formed radiators on an entirely new system, and electrically heated floor and wall type radiators.

G.R.L. FLOORINGS, LTD. STAND 497.

Manufacturers of floor covering.

Exhibits: Prima Phenco Tested PVC plastic floor covering in various colours.

GULF RADIATOR CO., LTD. STAND 437.

Manufacturers of radiator and heating equipment.

Exhibits: pressed steel radiators, electrically

heated, with or without thermostatic control, and the "column" type radiator.

F. HILLS & SONS, LTD. STAND 283,

Manufacturers of panel and flush doors. Exhibits: flush and panel doors for internal and external use with various types of West African wood veneers, Clymax and solid-core type flush doors.

HENRY HOPE & SONS, LTD. STAND 81.

Manufacturers of metal windows.

Exhibits: a patent glazed window 10 ft. wide as manufactured for a chemical works. Hydraulic gearing as supplied to Cliff Quay Power Station, Ipswich; a friction hinge (now fitted to this company's range of standard domestic type windows) is demonstrated. A deflection test on a steel door-frame with the new "Boxform" steel lintel is being shown.

IDEAL BOILERS & RADIATORS, LTD. STAND 274.

Manufacturers of boilers and radiators and sanitary appliances.

Exhibits: domestic fuel burning appliances, radiators, towel rails, copper fittings and Standard sanitary appliances. The Ideal Neofire, providing background heating and hot water supply, is on show as well as the latest types of gas boilers.

IMPERIAL CHEMICAL INDUSTRIES, LTD. STAND 78.

Exhibits: will illustrate the part played in the building industry by four ICI divisions: Paints, Plastics, Metals, and Billingham.

Paints Division: display deals with the economics of painting. It stresses the importance of adequate preparatory work and a finishing coat that will provide a durable film.

Plastics Division: is displaying Alkathene tubing for plumbing services, corrugated Perspex for roof lighting, wash-basins and a kitchen unit in Perspex, thermosetting adhesives, PVC electrical fittings and coated fabrics for upholstery and flooring, nylon paint brushes and Nuron laminated boards, The use of Alkathene polythene film as an anti-corrosive layer in industrial flooring is featured.

Metals Division: show the uses of non-ferrous metals in building construction. Prefabricated copper panels for roofing, the use of aluminium alloy as a roofing material, and extrusions for facilitating the assembly of a complete roof-covering. A plumbing layout, using light-gauge copper tubes with Fyffe's fittings, both of the compression and capillary type, demonstrates domestic water and gas installations.

Billingham Division: exhibits Pioneer Portland cement, Steelerete rapid-hardening cement and Pioneer water-repellent cement. In the plasterboard range are shown Pioneer wallboard—high-grade fire-resistant gypsum board for covering walls and ceilings.

JENSON & NICHOLSON, LTD. STAND 295.

Manufacturers of Robbialac paints. Exhibits: specimen panels on wood, plywood, asbestos board, plaster, wall-boards, etc., show the finishes that can be obtained with Robbialac Enamel Hard Gloss Paint, Suede Finish Wall Paint, Acquatinta Washable Distemper, Stucomat Exterior Wall Paint, Robbialac Lead Base Gloss Paint, Varnishes, etc. Also examples of the painting surfaces obtained with Robbialac Undercoating.

JENSON & NICHOLSON, LTD. STAND 296.

Pest Control Division.

Exhibits: many uses of Cuprinol Wood Preservatives for all building purposes. In addition, exhibits show the many insecti-

cides and fungicides included in the complete Cuprinol range of grades for timber, textiles, ropes and cordage. Emphasis is placed on treatments for all climatic conditions and for resisting attacks by boring beetles and dry rot. Technical experts are in attendance to answer questions.

JICWOOD, LTD. STAND 433.

Manufacturers of insulating board and

Exhibits: Weyroc man-made timber, showing various methods of application. The whole stand is constructed of Weyroc and a special demonstration unit, showing how this material can be used for outside work is included.

J. A. KING & CO., LTD. STAND 121.

Manufacturers of cast-concrete products.

Exhibits: horizontal constructions showing roof pavement and floor lights, canopies, domes, barrels and lantern lights. Vertical constructions, including windows, stall-boards, screens and partitions. A lantern light in standard pre-cast concrete unit. These standard units can be arranged to form lanterns of various sizes.

KWIKFORM, LTD. STAND 143.

Manufacturers of plant and equipment for building.

Exhibits: unit frame scaffolding, a patented prefabricated unit frame system with adjustable bases and fittings which provides a completely independent scaffold, and a patented suspended formwork which forms the floor of the stand. The basic units of the suspended shuttering system Flatforms is used for the floor construction. A patented system of wall and beam shuttering is shown, together with its particular application to factory and "No-Fines" house construction. A new system of flexible formwork for both horizontal and vertical circular concrete work. The major exhibit shows the use of this formwork both for barrel vault construction and for circular concrete tanks. Flexible forms are anchored to shaped tee ribs by clamps and in barrel vault construction, these are supported by components of Kwikform scaffolding.

LEAD INDUSTRIES DEVELOPMENT COUNCIL. STAND 178.

Exhibits: a demonstration of lead burning and the use of lead burning in building work as a contribution to economy in the production of plumbing and leadwork. The Council's special travelling exhibit, which shows ¼ full size models of plumbing and sheet-lead work as covered by information sheets, is also shown.

LION STAMPING CO., LTD. STAND 520.

Manufacturers of sheet-metal work, light constructional steelwork, water and space heating equipment.

Exhibits: oil-burning hot-water boilers, water-heating boosting units, transportable water-heating units for farms, mobile catering, etc., non-pressure oil-burning space heaters, non-pressure oil-burning cookers, electric heaters with drying and airing compartment, fluorescent lighting fittings, unit construction kitchen furniture, architectural sheet-metal work generally, hard-baked enamel finishes for interior decoration.

LOFT LADDERS, LTD. STAND 491.

Manufacturers of aluminium-alloy folding steps and ladders.

Exhibits: an entirely new Duplex-type loft ladder capable of being operated both from above and below. New type of fire escape, demonstrated by scale model, capable of being put into rescue position in under 30 seconds.

WILLIAM MALLINSON & SONS, LTD, STAND 91.

Timber and veneer merchants and manufacturers of floorings, metal covered flush doors and panelling.

Exhibits: examples of the manufactured products of some of the associate companies. Hardwoods, veneers, floorings, etc., and manufactured exhibits. Examples of metal-covered flush doors, a full scale section of an escalator stairway with teakfaced panelling. Plywood boards faced with Warerite and sections of hollow spars for boat building. Examples of flat and shaped veneered panelling faced with various decorative veneers, including homegrown, Empire and foreign veneers.

THE MARLEY TILE CO. STANDS 166 AND 167.

Manufacturers of roof and floor tiles.

Exhibits: Stand 166—Floor tiles in various colours, new type of greaseproof acid-resisting and semi-flexible tile, examples of methods of treating concrete floors to make them fit for tiling. Stand 167—The use of roof tiles in various colours and the new Anglia Pantile with a variable gauge and a positive side lock. The Marley Trough Valley tile for use in place of lead on open valleys.

META MICA, LTD. STAND 494,

Manufacturers of insulating roof and floor screeds.

Exhibits: various products, all based on Meta Mica Brand Vermiculite. A spray for walls and ceiling, which has anti-condensation properties as well as thermal insulation and sound absorptive qualities. Trowelled finishes for walls and ceilings.

MINISTRY OF FUEL AND POWER. STAND 457.

Exhibits: stress the necessity for housing committees, architects and builders to decide on heating appliances before construction begins and for architects to consider the constructional requirements of the particular heating appliance and to see that they are properly installed.

MINISTRY OF HEALTH, STAND 458.

Exhibits: based on the recommendations set out in the Housing Manual, 1949, with particular reference to house planning and design, layout and grouping. Plans are exhibited of the recommended designs for both large and small families in the town and country. Models show the layout problems of a new residential area and the means by which an economic and varied layout can be achieved in a high density development of 100 habitable rooms per acre.

MINISTRY OF LABOUR AND NATIONAL SERVICE, STAND 456.

Exhibits: methods of ensuring safety on building sites. Models and illustrations indicating methods of satisfying the requirements of the Building (Safety, Health and Welfare) Regulations. These came into force on October 1, 1948, and apply to all building operations. HM Inspectors of Factories are available at the stand to give advice on building regulations and safety.

MINISTRY OF TOWN AND COUNTRY PLANNING. STAND 451.

Exhibits: the effect of the T & CP Act on the various uses of land over the country. The various factors affecting the granting of planning permissions for the erection of buildings.

MINISTRY OF WORKS. STANDS 445, 447, 449, 452 AND 564.

Exhibits: sight-recording systems for housing and general building work showing the various systems for costing, programming and progressing of building work. The methods of obtaining steel economy by using high tensile steel or the new cold rolled lightweight sections or by using prestressed concrete. This sections hows how structural engineers and architects can help by designing to advanced shows now structural engineers and architects can help by designing to advanced
performance standards. Booklets dealing
with the new Codes of Practice and
the BSS which permit higher working
stresses are available on the stands. A display explaining by use of diagrams and models the use of prestressed concrete and how the material can be applied to structural projects. Actual specimens and sections of prestressed concrete members.

NATIONAL FEDERATION OF CLAY INDUSTRIES. STAND 43.

Exhibits: types of facing bricks showing the colours and textures available. Clay roofing tiles and their uses. Photographs showing the part played by clay products in the construction of buildings. A display of bricks and tiles dating back to Roman

THE NEUCHATEL ASPHALTE CO., LTD. STAND 100.

Manufacturers of natural rock asphalte for roofing and flooring.

Exhibits: Nacofelt built-up bituminous roofing in all its various finishes, together with asphalte roofing, Accotile decorative flooring tiles, and practical exhibits showing asphalte tanking and coloured asphalte

THE NORTH BRITISH RUBBER CO., LTD. STAND 255.

Manufacturers of rubber flooring.

Exhibits: rubber flooring in tile and sheet form. Each day demonstrations are being staged showing the mixing and laying by trowel of this Latex-Cement floorevering. The display also includes examples of nosings, mats and hose, also rubber footwear and calendar clothing.

PAINT REMOVERS, LTD. STAND 39.

Manufacturers of paint removers.
Exhibits: demonstrations of Offkwik Paint Remover. One of the advantages of this remover is that it is said to be non-inflammable, non-corrosive, non-poisonous and to be non-toxic if applied according to instructions.

PEGLERS, LTD. STAND 93.

Manufacturers of plumbing fittings.

Exhibits: Prestex fittings in chromium plated finish for bathroom and kitchen and compression joints for light gauge copper tube. A range of valves for water, steam, oil and air.

PENFOLD FENCING & ENGINEER-ING, LTD. STAND 28.

Manufacturers of chain-link fencing. Exhibits: types and sizes of chain-link fencing erected on supporting posts of concrete, tubular steel, angle iron and timber; gates with matching chain link, framed with tube and angle iron.

PESTCURE, LTD. STAND 408.

Manufacturers of Pestcure dry rot, woodworm and termite solutions.

Exhibits: the use of dry rot, wet rot, Death Watch beetle, furniture beetle, Lynctus beetle and termite solutions.

Teams of trained technicians are available to carry out eradication and treat-

PILKINGTON BROS., LTD. STAND 133.

Manufacturers of glass.

Exhibits: the uses of structural and decorative glasses and a new type of "armourplate" glass door with standardized fittings, as well as a new use of prismatic glass. In addition, samples of double glazing units are available, and a specimen unit installed in the maximum size of 80 in. by 80 in.

PORTER LONDON PRODUCTS, LTD. STAND 558.

Manufacturers of built-in furniture and equipment.

Exhibits: built-in furniture incorporating plastic veneers. Partitioning capable of easy assembly and dismantling by means of a new patent tubular joint. A new easy assembly and dismanting by means of a new patent tubular joint. A new patent flush joint for tubular structures. Electric lighting display units. A new patent concealed fixing for panels. Applications of Celastoid plastic.

PYNFORD, LTD. STANDS 499 AND 501.

Undenpinning specialists and civil engi-

Exhibits: methods employed to underpin walls, etc., using a patented system of underpinning which enables reinforced concrete frames and beams to be incorporated under buildings suffering from settlement or where the insertion of bressummers is required. Two full sized actual beams are shown in their various stages of construction together with precast stools. A collection of photographs indicating the numerous types of work undertaken by the Company and illustrating the site investigation service offered for preparatory works before build-Exhibits: methods employed to underpin offered for preparatory works before build-ings are erected, or for the determination of soil properties and causes of failures in existing structures.

THE RAWLPLUG CO., LTD. STAND

Manufacturers of Rawlplugs and boring

Exhibits: three new devices which have been designed to assist in the speedy erection, dismantling and re-use of timber formwork for, all types of concrete construction. A complete range of hole boring tools, jumping bits for use with Rawlpolts, wall boring tools for penetrating right through walls and ceilings, tubular boring tools specially made for brick work, the débris being ejected through an elongated slot in the tool. Molybdenum chisels which need only occasional regrinding, and can be sharpened with a second cut file. Durium tipped spiral fluted drill for all types of masonry except concrete, and the new RP1 slow speed electric drill. Exhibits: three new devices which have

REDHILL TILE CO., LTD, STAND 90.

Manufacturers of roofing tiles.

Manufacturers of roofing tiles.

Exhibits: a miniature house designed to display the qualities of Redland roofing tiles. The stand is roofed with a new interlocking tile, which has just been placed on the market. A special feature is the use of the valley tile, which has been specially designed for use on varying pitches with the interlocking tiles. The vertical tiling on the miniature house is carried out in standard tiles, whilst the pillars supporting balcony show other colours in Redland cross cambered tiles.

ROBERTS ADLARD & CO., LTD. STANDS 446 AND 448.

Roofing contractors.

Exhibits: a model schoolroom that has been roofed in a modern manner, which has already been illustrated and described in an article contained in The Architects' Journal on September 1. Drawings and photographs illustrating traditional types of roofs and examples of the most modern roofing techniques.

RONEO, LTD. STAND 409.

Manufacturers of steel furniture and office equipment.

Exhibits: the new Ronel "500" Series II has an inking system said to give twice the number of copies per pound of ink and to save considerable operating time by enabling double-sided work to be produced without interleaving on all normal duplicating papers. The new Ronel "150" is a portable machine with fully automatic linking and feeding.

JOSEPH SANKEY & SONS, LTD. STAND 53.

Manufacturers of steel furniture and metal trim.

Exhibits: samples of pressed steel door frames and metal trim, i.e., pressed steel skirting, picture rail, corner bead, window sills and window linings, including the sections standardized by the BSI.

SCAFFOLDING (GREAT BRITAIN), LTD. STAND 114.

Manufacturers of building plant.

Exhibits: steel tubular scaffolding, aluminium light weight scaffolding and patent prefabricated scaffold units known as Scafrig, together with a large range of fittings interchangeable with all three types fittings interchangeable with all three types of scaffolding. Suspended scaffolding and travelling or fixed cradles suitable for painting, stone-cleaning, available on hire contract. High-quality ladders, steel barrows, splitheads, and props, steel shuttering known as Conforms suitable for horizontal or vertical surfaces. Models and photographs of welded tubular construction.

TOM M. SCOTNEY, LTD. STAND 252.

Manufacturers of joinery. Exhibits: Mass production and purpose made joinery.

PRODUCTS. SEALOCRETE LTD. STAND 183.

Manufacturers of Sealantone liquid colours for cement.

Exhibits: hardeners and waterproofers and colours for interior and exterior decorative finishes; Sealocrete patented waterbar for construction joints in concrete; Sealocrete liquid stone compound for use as a decorative, cement-base waterproof paint; coloured cork flooring compound.

SECOMASTIC, LTD. STAND 3.

Manufacturers of waterproofing and caulking materials.

Exhibits: the uses of Secomastic compound in building maintenance. The applying of a ribbon of the compound by means of a Seco Gun to seal open joints and cracks is demonstrated on full-scale models. New Extra-Capacity Cartridge, which is the outcome of considerable research and which is claimed to be the ideal pack for this type of material.

SEMTEX LTD. STAND 129.

Manufacturers of floor coverings.

Exhibits: floor coverings of various types, Semastic decorative tiles in varied colours and finishes, Fleximer floor covering and PVC tiles manufactured by Dunlop Special Products, Ltd., and installed Semtex, Ltd.

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SHARP BROS. & KNIGHT, LTD. STAND 262.

Manufacturers of joinery.

Exhibits: a stormproof standard bay window forms the frontage to the stand office, enclosed on the other sides by a standard french frame, a built-in cupboard, a flush door and a standard SBK dresser unit. Hinged to the outside office wall is a full range of standard panelled doors, to BSS ENJO/SBK doors and flush doors with plywood and hard-board face. A complete stair-case, made for a current contract is exhibited alongside specimens of EJMA standard windowns and SBK stormproof windows.

SILEXINE PAINTS, LTD. STAND 170.

Manufacturers of paint.

Exhibits: Silexine Plastic Emulsion coating (previously known as Stella 1205). surface coating is based on a plastic emulsion and dries to an eggshell finish. It can be applied direct to new plaster, cement asbestos, and brickwork without the use of special sealers, primers or undercoats.

SMITHS ENGLISH CLOCKS, LTD. STAND 182.

Manufacturers of clocks and signalling systems.

Exhibits: control panel containing all the equipment necessary to operate a complete industrial clock, time recorder and audible industrial clock, time recorder and auditorsignalling system. Examples of outdoor clock dials and single and double sided advertising clocks. Interior wall clocks suitable for operation from a master clock and an electrical automatic time recorder are operated on the stand. A range of portable and wall process timers, with models suitable for second or minute timing.

STEWARTS AT STAND 101. AND LLOYDS, LTD.

Manufacturers of steel products.

Exhibits: a tubular framed building 30 ft. by 20 ft., being two bays (single span) of the company's Universal building. The roof is clad with super six sheets, sides and gable ends being left open. The two gable ends are fitted with roller doors (for demonstraare fitted with roller doors (for demonstra-tion purposes only). In the centre of the stand a revolving table carrying examples of plumbers' brass foundry products as manu-factured by John Russell and Co. Ltd., an S & L subsidiary. Other exhibits include wheelbarrow frames, road trestles, a tubular framed builder's screen and a model of roof trusses, all of tubular steel construction.

STRAMIT BOARDS, LTD. STAND 288.

Manufacturers of Stramit boards.

Exhibits: applications of the Stramit building slab, illustrations of houses and other buildings constructed from Stramit in Sweden, and photographs illustrating fire-resisting qualities of the Stramit board. The stand also includes the Lindoco doors and the Carda win-dows manufactured by Linden Doors. Ltd., an associate company. The Carda window, a patent pivot-hung double-glazed window, is of Swedish design manufactured in this country under a patent.

STRUCTURAL & MECHANICAL DE-VELOPMENT ENGINEERS, LTD. STAND 99.

An associate company of the Light Metal Industries Group.

Exhibits: a bungalow built up partly of Alframe panels and partly of Alcrete panels. The Alframe panel consists of external corrugated aluminium alloy sheet, glass wool lining and fibre board interior. It is used for transportable housing. The Alcrete system of construction for permanent housing is a development of the system employed in the production of the aluminium house for HM

Government. Also featured is the aluminium alloy roof construction as developed by SMD for factory buildings, including its latest use in conjunction with prestressed and precast concrete columns.

E SUSSEX & DORKING UNITED BRICK COMPANIES, LTD. STAND

Manufacturers of bricks.

Exhibits: fifty types of bricks ranging from hand-made facings to engineering bricks are exhibited in panels forming two sides of a courtyard. A simple reinforced brick lintel is demonstrated.

TENTEST FIBRE BOARD CO., LTD. STAND 119.

Manufacturers of building and fibre boards and patent adjustable metal fittings.

Exhibits: fibre building board products, Tentest Insulating Board and Masonite Hardboards, with fittings for fixing lining boards to steel framed structures. A new method of concealed fixing, which avoids exposed metal strips, is exhibited.

THOMAS & BISHOP, LTD, STAND 202.

Manufacturers of engineering specialities. Exhibits: Tebeon Roofing Compound, Cement, and Flexo Black Flexo R Bituminous Paint.

HN THOMPSON BEACO DOWS LTD. STAND 265. BEACON WIN-

Manufacturers of metal windows and pressed metal products.

Exhibits: metal windows and pressed metal products, aluminium sliding doublesash windows, purpose made sash windows and glazing screening, metal doors and frames, and types of industrial

THE TILLEY LAMP CO., LTD. STAND

Manufacturers of paraffin vapour lamps.

Exhibits: model FL6 Floodlight. lamp, which provides 5,000 candlepower and is completely portable (weighing only 22 lb.), burns for 40 hours on six pints of ordinary paraffin. Also on show are several lamps which have been completely re-designed, and are now finished in cream and polished brass with a shade to match.

BER DEVELOPMENT A TION, LTD. STAND 241.

Exhibits: scale models of timber structures supported by drawings and other explanatory In addition, display material illustrates the following: the use of glued laminated timber construction in buildings, the use of semi-hardwoods in buildings and structural tests carried out by the TDA.

TRETOL, LTD. STAND 208.

Manufacturers of paint and building trade

Exhibits: Tretolin paint designed for direct application to asbestos-cement: the chemical resistant properties of Tretol Chlorinated Rubber Paint: the remaining Tretol products are shown in the "From Foundation to Roof" exhibit. Waterproofing protective and decorative materials are displayed in a manner showing their exact use.

TRUE FLUE, LTD. STAND 11.

Manufacturers of domestic flue and convector heating appliances.

Exhibits: two typical stacks making use of specially designed patented concrete stack blocks and lintels, which are said to ensure speed and ease in erection. The smoke flues are formed of circular refractory rebated straight linings and bends designed to give efficiency in action.

G. TUCKER & SON, LTD. STAND 254

Manufacturers of bricks and tiles.

Exhibits: the exterior elevations of the Exhibits: the exterior elevations of the stand are built in Multiruf (Regd:) and Newstyl machine-made, hand-finished facings in a mixture of red, rustic brown and mottled purple colours, all in 2 in thickness. The interior of the exhibit is composed of hand-made facings in colours ranging from golden biscuit to golden russet, in 2 in thickness.

ARLES TURNER & SON, LTD. STAND 77. CHARLES

Manufacturers of varnish, paint and enamel

Exhibits: Glynto enamel, Bloomsbury hard gloss, Charter flat oil paint, etc., as well as a range of varnishes. Special "foundation" paints or primers—Charter "foundation" paints or primers—Charter aluminium primer for wood, plaster and asbestos sheeting and Anti-Rugine for all ironwork.

VENESTA, LTD. STAND 138.

Manufacturers of veneered plywood and Plymax, the metal-faced plywood.

Exhibits: Venesta veneered plywood and Plymax, a metal-faced plywood, with examples of their use. Examples of the use of Vendura, the veneered aluminium sheet, are included. Permaply, an all-weather plywood, for the construction of light boats, tropical structures and shuttering for concrete.

A. VIGERS, SONS & CO., LTD. STAND 168.

Timber importers and flooring specialists. Exhibits: 1-inch oak parquet, wood blocks, hardwood strip, 1-inch Accotile, cork and composition flooring.

VULCAN PRODUCTS, LTD. STAND 38.

Manufacturers of paint.

Exhibits: a range of panels of the more popular of their proprietary branded quality paints, enamels, varnishes and primers.

WARERITE, LTD. STAND 73.

Manufacturers of plastic.

Exhibits: Warerite naminated materials for walls, tables, bars and furniture tops. A wide range of patterns along colours, including Warerite materials 101
furniture tops. A wide range
and plain colours, including Warente
Weave, a pattern material, with an extra
Weave, a pattern surface. Examples of
the colour colours of the c hard resistant surface. Examples of Warerite veneered board (thin Warerite veneer laid on a special licence-free core of plywood) are shown.

C ALLOY RUST-PROOFING CO., LTD. STAND 302,

Sherardizing contractors.

Exhibits: examples of ironwork such as steel casements, metal trim, electrical conduit, iron door furniture, screws, nails, gate fittings, etc., rust-proofed by the Sherardizing process. The stand forms a duit. technical information bureau where visitors are able to obtain full particulars of the process, its cost, and details of the uses which it can be put in the building

ZINC DEVELOPMENT ASSOCIATION. **STAND 124.**

Exhibits: the application of rolled zinc for roofing, rainwater goods and weather-ings, illustrated by full size examples and scale models. Technical experts are available to deal with enquiries concerning all uses of zinc in building.

Porch on the north-west elevation of the electric sub-station.

INDUSTRIAL BUILDINGS AT SCUNTHORPE

ARCHITECT: FREDERICK GIBBERD

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From the west.

GENERAL.—These three buildings, consisting of an electric sub-station, an office and welfare building, and a rolling mill, are part of an extensive reconstruction programme being carried out by the Appleby-Frodingham Steel Company. The designers working in collaboration with the architect were :- I. M. Kemp, chief designing engineer; K. Paterson, civil and mechanical engineer; J. L. Gaskell, chief electrical engineer; H. Saunders, manager of the constructional department, all of the Appleby-Frodingham Steel Company. Consulting engineers for the rolling mill, Scott & Wilson Ltd. Assistant architects :- Gerhardt Rosenberg, for the rolling mill; J. W. Grimes, for the sub-station; R. Double, for the office and welfare building. Site engineer: R. C. Aylmore. Quantity surveyor: P. T. Walters.

The general contractors for all three buildings were John Mowlem & Co., Ltd. For list of subcontractors see page 572.

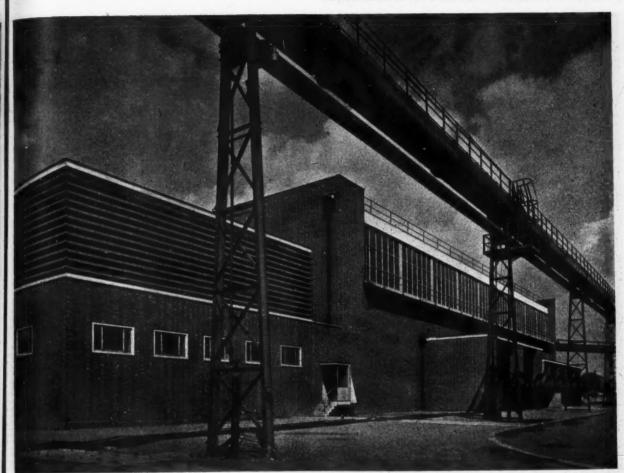
1. ELECTRIC SUB-STATION

PLAN.—This sub-station supplies and distributes electricity to the power-driven equipment throughout the rolling mill and allied buildings; it consists of a large machine room, 173 ft. long and 70 ft. wide, with a fan house at one end; the transformers receiving current from the grid system stand in front of the building. Inside the machine hall the generators are set in the centre of the floor, with the switchgear ranged on the walls. A railway loading dock and a travelling overhead crane are provided for the movement of heavy machinery. Furnace dust in the air constituted a problem, which was overcome by the installation of a pressurised and filtered ventilation system for cooling the motors. The oil filtration plant is sited in the fan house. Day lighting is from clerestory windows above the crane rails, giving

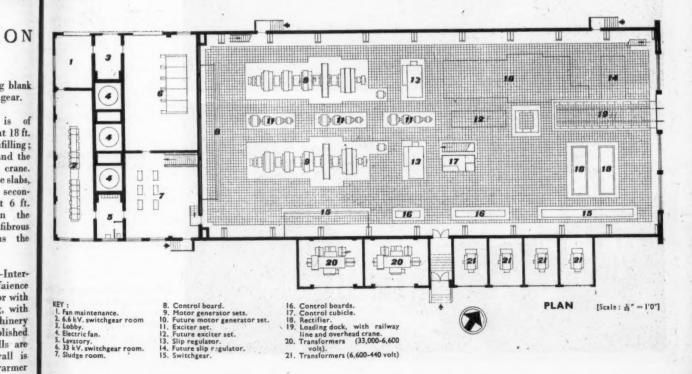
side lighting and permitting blank walls for mounting switchgear.

CONSTRUCTION.—This is of welded steel portal frames, at 18 ft. 6 in. centres, with brick infilling; the frames carry the roof and the beams for the travelling crane. The roof is of precast concrete slabs, 2½ in. thick, supported on secondary steel beams placed at 6 ft. centres; suspended down the centre of the roof is a fibrous plaster grille which forms the ventilation outlet.

INTERNAL FINISHES.—Internal walls are finished in faience tiles, 12 in. by 9 in.; the floor with 12-in. square terrazzo tiling, with darker surrounds to machinery and walls; handrails are polished steel and bronze. Side walls are white glazed; the end wall is cream; the floor is a warmer

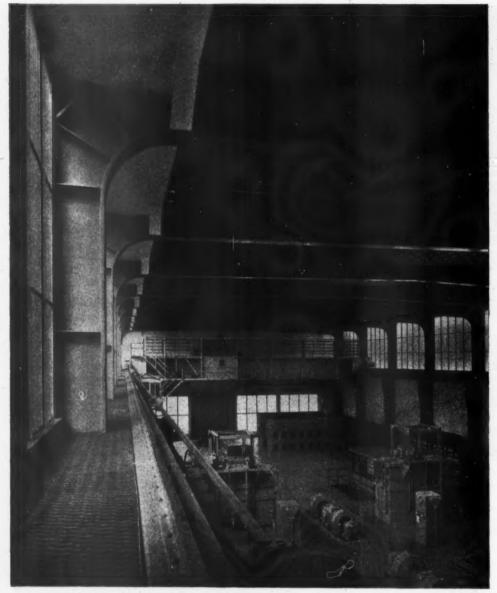


From the south.

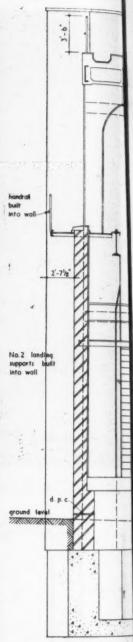


ARCHITECT: FREDERICK GIBBERD

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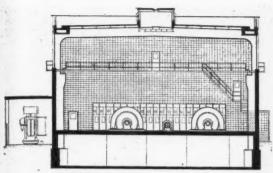






SECTION THROUGH [Scale 1" = 1'0"]

Top, the machine-room of the electrical sub-station from the crane gallery. Left, the machine - room, looking towards the windows in the north-east elevation.



SECTION [Scale: #"=|'0"]

cream with darker surrounds. The form of the portal trusses is brought out by painting them a dark vandyke brown—other steelwork at right angles is in grey. Beams over windows are eggshell white, the concrete roof space is powder blue, and the ventilation grille dead white. The control cubicle is grey and ultra-marine, and bright colour is provided by the deep chrome yellow doors.

ELEVATIONAL TREATMENT. -Externally the brick walls to the fan house and the machine room were designed as a single plane to fuse the two elements together. The louvres over the fan house are covered with a flat reinforced concrete slab with con-cealed supports. The windows, and the cleaning gallery under them, are painted neutral grey; the mullions in front of the portal frames are bright ultra-marine. The band of the concealed gutter at the head of the windows is in buff cement. As the fan house is of load bearing brickwork the windows were set into the walls as isolated units, with stone surrounds. All horizontal surfaces have zinc weather stripping to prevent staining and marking of surfaces. A hard reddish brown engineering brick was used so that it could be easily cleaned. To give relief, horizontal joints are recessed and vertical ones finished smooth, and a pattern of vertical headers was obtained by using double Flemish bond-two stretchers to one header. Metal surfaces generally are painted medium grey, accents of colour being provided by chrome yellow panels to doors and porches, ultramarine mullions between windows, and blue-grey tiling to the main entrance.

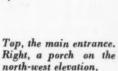
ROUGH WALL

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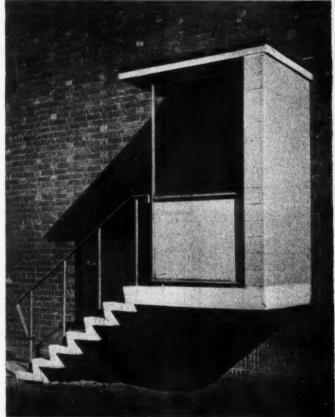
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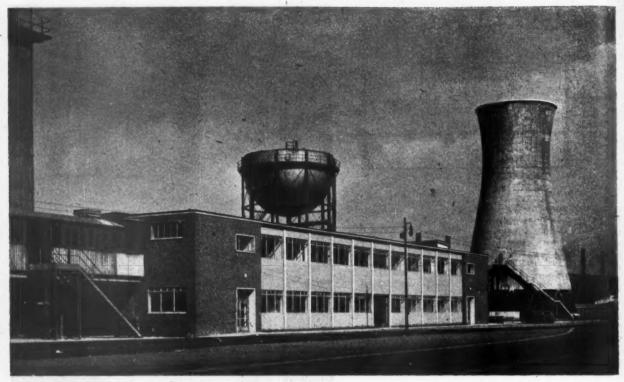
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RPE









From the south-east.

OFFICE AND WELFARE BUILDING

prises offices and laboratories for the control of the nearby melting shops, to which an enclosed gallery gives direct access. The ground floor contains welfare accommodation for workers and foremen,

PLAN.-The upper floor com-



KEY: First Floor

- First Floor

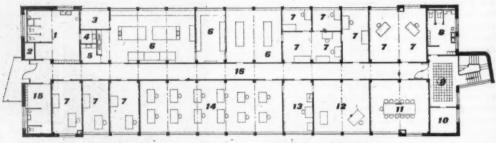
 1. Male staff.
 2. Ventilation duct.
 3. Store.
 4. Cleaners' room.
 5. Dark room.
 6. Laboratories.
 7. Offices.
 8. Manager's lavatory.
 9. Entrance hall.
 10. Waiting room.
 11. Meating room.
 12. Manager's Office.
 13. Secretary.
 14. General office.
 15. Fermale staff.
 16. Corridor.

Ground Floor

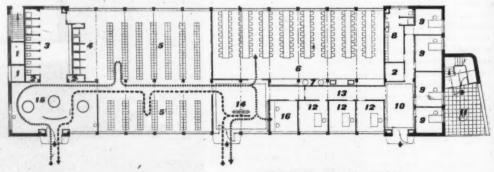
- Ground Floer

 1. Ventilation ducts.
 2. Store.
 3. Workmen's lavatory.
 4. Showers.
 5. Locker rooms.
 6. Messroom.
 7. Tes-making and hot cup-board.
 8. Foremen's lavatory.
 9. Offices.
 10. Foremen's entrance hall.
 11. Entrance terrace.
 12. Foremen's offices.
 13. Corridor.
 14. Clocking-in hall.
 15. Ablutions.
 16. Pay office.
 The dotted lines show circu-

The dotted lines show circulation of workmen on arrival and departure.



FIRST FLOOR



GROUND FLOOR PLAN

[Scale: # "=1'0"]

From top to bottom: the clocking-in hall, the mess room, the main laboratory and the men's lavatory.

and foremen's offices. All workers pass through this building on arrival and departure; after clocking-in each man goes to his personal locker, and then through the ablutions room to the works, reversing this procedure after shifts and at mealtimes. As many men prefer to bring their own food rather than to use canteens, a messroom is provided, with a hot cupboard and tea-making apparatus. The first floor offices and laboratories are entered from a staircase at the north end of the building feeding a central corridor which connects up to the melting shop at the south end. The chief function of the laboratories is to make immediate tests of the steel while still molten in the large melting pots. A basement of asphalte-tanked concrete construction houses machinery for ventilation and heating.

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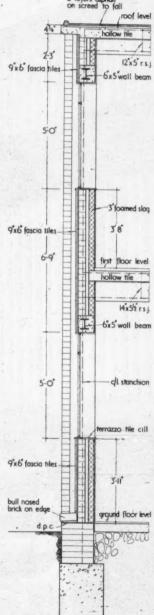
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CONSTRUCTION.—This is a steel frame with reinforced concrete floors, roof and staircase; end bays are solid 14-in. brick. Stanchions are at 11 ft. centres and are concrete faced; windows stretch between columns; the panel infilling below them is cavity type, the outer skin being 41-in. tilefaced brick, and the inner skin 3-in. foamed slag.

ELEVATIONAL TREATMENT. -External finishes are pale beige reconstructed stone and rendering; blue-grey tiles; dark reddish brown brickwork; yellow metal windows and Prussian blue entrance doors.

SERVICES.—Surplus steam from the works provides heating and hot water. Control equipment installed includes a pneumatic tube sample delivery system, télephones, buzzers, electric impulse clocks, etc.; much of this, together with ventilation ducts and conduits, is contained in a false ceiling over the central corridor.













Detail of south-east wall of rolling mill.

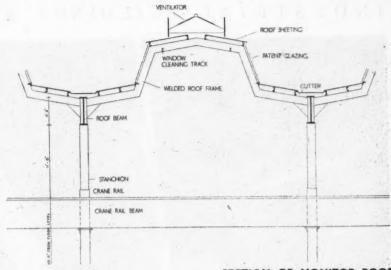
ROLLING MILL

GENERAL.—It was required that the new building should be erected over the existing mill without stopping production; this demanded exceptionally capable site organisation.

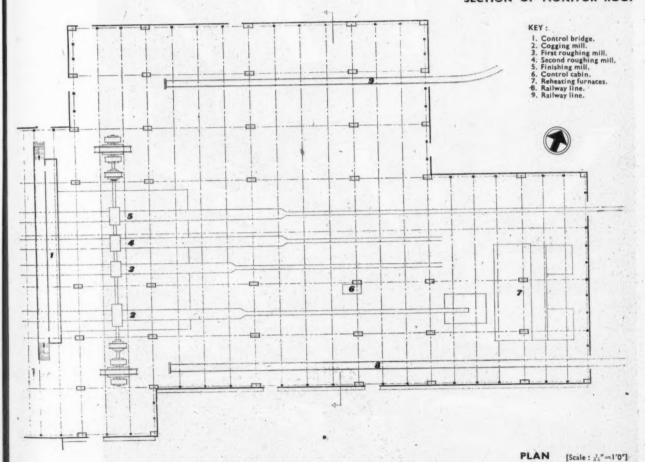
PLAN.—To accommodate rolling racks, mills and overhead cranes, it was essential that supporting columns should be widely spaced, and a bay of approximately 80 ft. by 40 ft. was generally suitable; some bays were increased to 80 ft. width, with the intermediate columns carried on the crane rail

of

E



SECTION OF MONITOR ROOF





ELEVATION

INDUSTRIAL BUILDINGS AT SCUNTHORPE



The interior showing the welded monitor roof frames,

CONSTRUCTION.—This is of plated beams and stanchions; as

beams. A monitor type roof construction was used to ensure an even day lighting throughout. much work as possible is welded, except for site connections, which are bolted. The welded monitor roof frames are at 20 ft. centres, with light steel channel purlins; the valleys of the roof are covered

with steel sheets and the tops of the monitors are asbestos cement sheeting. Side walls consist of light galvanised steel sheet, steel ventilating louvres, and low brick

D

Announcing THE NEW SEMASTIC DECORATIVE FLOOR

APPROVED CONTRACTORS

ALBA FLOORING CO. LTD., West Arthurlie Works, Lochlibo Road, Barrhead, Glasgow

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> > HOLLIS BROS. LTO.,

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> PILKINGTON'S ASPHALTE CO. LTD., 68 Northiam Street, Hackney, E.8

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THE PENMAENMAWR & TRINIDAD LAKE ASPHALT CO. LTD., National Bank Building, Fenwick Street, Liverpool, 2

> THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD., Asphalt House, St. Mary Street, Cardiff

INCORPORATING THE FOLLOWING INFORMANT IMPROVEMENTS Brighter colours Higher abrasion resistance Greater resistance to acids, alkalis, grease, fire and moisture Easier to keep clean

BUILDING EXHIBITION

AVAILABLE FOR INSTALLATION AFTER JANUARY, 1950

The new range of

DECORATIVE TILES

is shown for the first time on

SEMTEX STAND No. 129, ROW G.

A FRODUCT OF A COMPANY IN THE DUNLOP GROUP.



DESIGN FABRICATION ERECTION 257 FAMILIES will live in the block of flats now being built at Cromer Street for the Borough of St. Pancras, London, using 1350 tons of steel. Architects: Robert Hening, M.B.E., Anthony M. Chitty, M.A., F.R.I.B.A., A.M.P.T.I., Town Planning Consultants. General Contractors: Stewart & Partners Ltd., London.



BOULTON
PAUL LTD

STEEL CONSTRUCTION

RIVETED OR WELDED

LONDON - NORWICH - BIRMINGHÂM

This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

INDUSTRY THE

By Brian Grant

US HOUSE-BUILDING

Readers of the Journal will no doubt re-member the "Tournalayer" house, a Readers of the JOURNAL will no doubt re-member the "Tournalayer" house, a design where the complete house was poured at a central concrete mixing plant and then carried, shuttering and all, by a vast diesel transporter and released from its shuttering on an already prepared site. Various other suggestions for the pouring of houses in one piece have been made from time to time, the latest effort coming from the Ibec Corporation of New York.
The photograph shows the walls of the house cast on the floor slab, and in the background is the roof slab, poured on the ground and then lifted into position. The schedule of operations follows:

follows:—

1. Standard road building equipment is used to prepare the site, including fine grading and compacting of the "road bed" on which the floor and roof slabs of the house are to be poured. This work is co-ordinated with the other site development operations of earth-moving, installation of utilities, road building, etc.

2. Concrete slabs are poured on the "road bed" on each house site. Alternate slabs are used as floors and intermediate ones are later raised to act as roofs. The design of those varies according to local climate and structural requirements. The floor slab projects beyond the walls and

floor slab projects beyond the walls and is designed to act as a spread footing.

After these slabs have set, the special Mall form is put in position and lowered into place on the slab by a crane. It is mechanically closed and prepared for pouring the concrete.

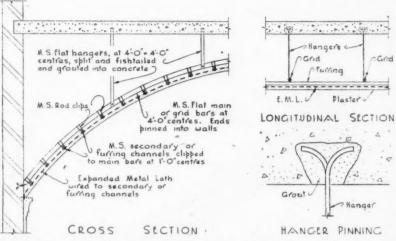
pouring the congrete.

4. Concrete is poured from above to the full height of the walls and the forms are vibrated. The pour is a single operation and the walls, interior and exterior. constitute a single monolithic structure. Immediately after vibrating, a patented vacuum process is applied which extracts the water from the concrete and accelerated. the water from the concrete and accelerates its setting. This is claimed to give inates its setting. This is claimed to give increased strength and savings in the amount of cement required. The walls vary in thickness according to local requirements. Light-weight aggregates are used where insulation is needed.

5. A few hours after the concrete has been poured the forms are released and



The experimental Ibec House. " US House Building."



Detail for the suspension of a barrel ceiling from a concrete floor or roof. See note on " Suspended Ceilings."

lifted vertically. They are then moved by crane to the next house site where the whole process is repeated.

6. When the walls have matured the roof slab is lifted into place as a single unit with a patented vacuum mechanism which allows the lifting of the slab withwith a patented vacuum mechanism which allows the lifting of the slab without introducing bending stresses, and additional reinforcing for handling is not required. The thickness of the roof varies according to local requirements.

7. Plumbing, wiring and general finishing follows, and this is also organized on a mass production basis.

a mass production basis.

So far as production is concerned, it is suggested that a minimium of five or six sets of wall forms produces the most economical rate of construction on a large-scale housing project, and with this minimum a schedule of ten or twelve houses per day may be maintained. While the wall forms are highly mechanized, their unit cost is sufficiently low so that new forms are developed for each major project. This allows maximum adaptability to the specific requirements of the project and the region and climate in which it is located. A scheme of 204 houses, the rents of which will not exceed \$45 a economical rate of construction on a large-

month, is now under construction in Norfolk, Virginia. (Ibec Housing Cor-poration, 30, Rockefeller Plaza, New York

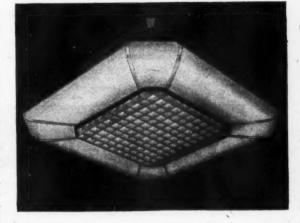
FLAMEPROOF BOARD

The flameproof board produced before the war by Sundeala, and known as Fyburstone, has now been reintroduced, and will, stone, has now been reintroduced, and will, in future, be known as Sundeala Flame-proof Board. It is a strong, homogeneous medium hard board which can be freated with any normal decorative finish, and as a fire-resister has been placed in Class II. It is made in a standard size of 8 ft. by 4 ft., with a thickness of ½ in. (Sundeala Board Co. Ltd., Aldwych House, Aldwych, London, W.C.2.)

SUSPENDED CEILINGS

While it is probable that not many licences are now being granted for jobs where there are elaborate suspended ceilings, there are still in existence specialist firms capable of carrying out the necessary bracketing and lathing. Where metal lathing is used the fire resistance is markedly improved over wood lathing, and Messrs. Steel Bracketing and Lathing, a

This new lighting unit, (Type E49) is intended for the illumination of banking halls, department stores, cinemas and theatre foyers, etc., and incorporates eight 4 ft. 40 watt lamps in two rows on four sides behind the diffusing screens and six 3 ft. 30 watt. lamps above the central louvres. feature of this unit is that it avoids the dark areas usually associated with fluorescent fittings: the whole unit is a luminous area. Since this fitting is normally used for high



mounting, care has been taken to ensure that it is easily maintained. The outer diffusing screens are easily removed to expose the lamps, and the central louvre tray may be dropped down on safety chains to obtain access to the 30 watt lamps. All quickstart units are contained within the main fittings; chokes and capacitors are used in the control gear box Thorn Electrical Industries, Ltd., 105, Judd Street, W.C.1. supplied with the fittings.



Hills Patent Glazing at York Road Station, Belfast, for the Northern Counties Committee. Engineer: N. C. Cain, B.Sc.

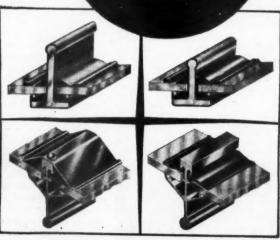
HILLS Lead Clothed Glazing Bars, hermetically sealed, have been tested and proved over many years, and have for long been adopted as standard practice. To fulfil the demand for an alternative to the traditional lead clothed bar, Hills also offer HILUMILUX Roof Glazing Bars, which are fabricated from extruded alloy and are available in two types: (a) with Aluminium Capping, and (b) with Lead Wings HILLS Patent Glazing includes all types of glazed Roofing, Lantern Lights, Deck Lights, Laylights and Ventilation, together with the necessary operating gear. Detailed information will gladly be sent on request.

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HILLS PATENT GLAZING



Top illustrations show section of Hills Lead Clothed Glazing Bars. Bottom illustrations are of Hillomilux Roof Glazing System, (a) with Aluminism Capping, (b) with Lead Wings.

firm which specializes in work of this kind, have just issued a booklet containing descriptions and diagrams of typical ceilings hung from roof trusses or floors. The lathing consists of expanded metal of \(\frac{1}{2}\) or \(\frac{1}{2}\) in diamond mesh wired to furring steel clipped at about 12 in. centres to the main bearers.

man searcrs.

The same system can also be applied to solid partitions. Light cold drawn steel angles suitably drilled are fixed by plugs to the floor and the ceiling over. Spanning vertically between them are fixed light cold drawn steel channels 12 in. apart. To these channels expanded metal lathing is wired ready to receive the plaster on both sides, to form a complete partition. With this method of construction, a 2-in. solid partition can be obtained, resulting in an increase in floor space and reducing the dead weight imposed on the structure.

By using a double row of channel studs, separated by spacers, and with an application of metal lathing on both sides, hollow partitions can be constructed in a minimum thickness. The void thus formed has several advantages, as it will accommodate heating pipes or electrical services and has excellent sound insulation. (Steel Bracketing & Lathing, Ltd., Willow Lane, Mitcham,

PROTECTIVE FINISHES

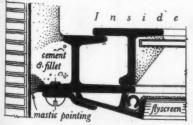
Bituminous compounds have always been accepted as providing first class protection against corrosion, but their dark colour has been a disadvantage. To the Ritolastic range of bitumens has now been added the type AL, which contains aluminium powder, so that the resultant finish is much the same as aluminium paint and has a good light reflection factor, while at the same time the leafing properties of the aluminium serve to protect the bitumen from the destructive efforts of the sun.

deforts of the sun.

Application involves no particular difficulties. The surface must, of course, be free from dirt and grease, but it is most important that the paint should be stirred well both before and during use, otherwise the aluminium particles tend to sink to the bottom. Application can be by spray, brush or by dipping, and the coverage is about 1,500 square feet to the gallon on a smooth non-absorbent surface. (Andrew Maxwell (Liverpool Borax Co., Ltd.), Maxwell House, St. Paul's Square, Liverpool. 3.)

PARTITIONS AND PANELLING

To most people the name Compactom means fitted wardrobes, but this firm has also specialized in recent years in the erection of partitions and panelling in licence-free materials such as Plimberite and Holoplast. The photograph shows a board-room for a shipping company, designed by Mr. R. W. Symons and panelled mainly in Holoplast. The main advantage of construction with materials of this kind is that the whole lob is very largely prefabricated, and that erection is therefore rapid; it is easy to dismantle and re-erect elsewhere, while with a



Detail of a larder window by Henry Hope & Sons Ltd. See note on "Steel Windows."



The boardroom of a shipping company panelled mainly in Holoplast. See note on "Partitions and Panelling."

material like Holoplast it is easy to run wiring in the cavity and to adjust the heat and sound insulation with fillings of glass silk or some similar material. (Compactom Ltd., Oxgate Lane, Cricklewood, London, N.W.2.)

STEEL WINDOWS

Henry Hope & Sons, Ltd., have just sent me a selection of catalogues, No. 230 dealing with hot dip galvanized standard windows. 231 on steel door frames, and 209 on standard Lok'd Bar sashes. Hope's consider hot dip galvanizing by far the best method of rust-proofing, and quote a 1941 installation of theirs in one of the wartime Thames forts which showed no sign of rust after seven years with no paint at all, an interval rather longer than the month's delay which they normally suggest as desirable for the galvanizing to weather before painting. As always, Hope's set a uniformly high standard of draughtsmanship, and are sufficiently knowledgeable to explain all the sort of points on which an architect might perhaps have doubts. It is perhaps worth adding that the Berners Street showroom has a permanent display showing steel doors and frames partly built in, as well as in actual use. (Henry Hope and Sons Ltd., Smethwick, Birmingham, 40.)

HINTS ON CONCRETE

A year or more ago Cementone issued a useful little booklet of hints on the use of their materials and on the various ills to which concrete may be heir. They have now followed this up with a film telling the same

story. This is being shown at hourly intervals on their stand at the Building Exhibition (40C) and will thereafter be available to technical schools and any other organizations which would like to see it. It is also likely to prove useful for training labour in the 48 countries to which Cementone is exported.

The first section of the film opens with shots of a factory floor which is smooth, hard, non-dusting, and free from cracks; in fact, everything that a cement floor should be. It then continues to show in contrast cement floors which are soft and dusty and which have cracked and lifted. The reasons for such failures are then given with advice as to how they can be avoided. Advice on the laying of coloured floors is also given in this section of the film, with shots showing coloured floors in the process of laying. After shots of a cement rendering which has cracked and crazed, the film continues with advice describing the way to obviate crazing troubles; this includes information of suitable mixes with methods of application and descriptive examples of permanent coloured cement wall finishes. Although paint failures are difficult to produce to order, or reproduce in pictorial form, an attempt has been made to describe why flaking of distemper or cement paints can occur on certain salt-containing bricks. The danger of decorating alkali-containing surfaces with ordinary oil paints is also emphasized with some remarks on the care needed in thoroughly cleaning down and preparing the surface before decorating. In general, a good film, sometimes a little naïve, but worth seeing. (Joseph Freeman, Sons and Co. Ltd., 96, Garratt Lane, London, S.W.18.)

PUBLICATIONS RECEIVED

Henley Wiring Systems. A 54-page booklet on metal sheathed and tough rubber sheathed wiring systems, with full details of the essential accessories for

rubber sheathed wiring systems, with full details of the essential accessories for both systems. (W. T. Henley's Telegraph Works Co. Ltd., 51-53, Hatton Garden, London, E.C.I.)

Storage and Works Equipment. Sixteen pages of storage racks, shelving, clothes lockers, cycle racks, partitioning, trolleys, hoists, conveyors, tables and sundry other works equipment items. (Timson Bros. (England), Ltd., Moor Street, Birmingham, 4.)

Sprayed Asbestos. This booklet describes sprayed "Limpet" asbestos and some of its applications, and also includes relevant technical data. (Newall's Insulation Co. Ltd., Washington, Co. Durham.)

Buildings Illustrated

Industrial Buildings at Scunthorpe (pages 559-568). Architect: F. Gibberd, F.R.I.B.A. Consultants: Chief designing engineer, Consultants: kell; manager of the constructional departkell; manager of the constructional department, H. Saunders; all of the Appleby-Frodingham Steel Company; consulting engineers, Scott and Wilson, Ltd.; assistant architects for the rolling mill, G. Rosenberg; for the sub-station, J. W. Grimes; for the office and welfare building, R. J. Double; site engineer, R. C. Aylmore; quantity surveyor, P. T. Walters. Electrical Sub-station. General Contractors: John Mowlem & Co. Sub-conshutters, steel doors, John Booth & Sons

(Bolton), Ltd.; steelwork, Appleby-Frodingham Steel Co.; fibrous plaster, ceiling louvres, handrails, porch screen, pressed steel main entrance doors, H. H. Martyn & Co.; faience tiling, British Clay Products Ltd.; terrazzo floors, Diespeker & Co.; electrical equipment, Metropolitan Vickers Electrical Co.; filtration plant, Visco Engineering Co.; control cubicle, Frederick Braby & Co.; transformer house gates, Morris Singer Co.; roof slabs, Hydroprest Concrete Ltd.; precast stone copings, window surrounds, cills, steps, Luda Concrete Products Ltd.; marble door surround, Fenning & Co.; crane, Joseph Adamson (Bolton), Ltd.: steelwork, Appleby-Frod-Fenning & Co.; crane, Joseph Adamson & Co.; metal windows, Almarco Ltd.; facing bricks, Doncaster Brick Marketing

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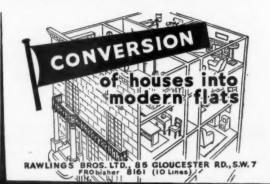
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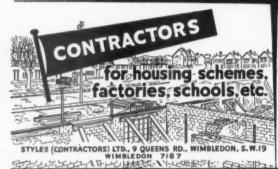
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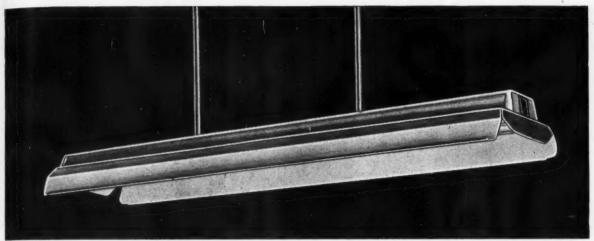
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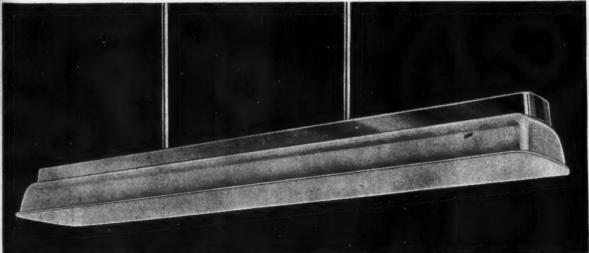
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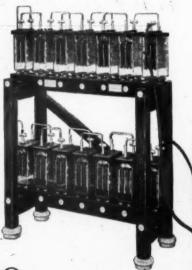
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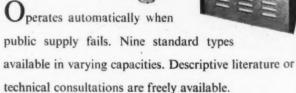


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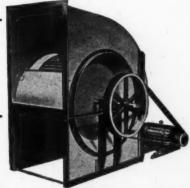
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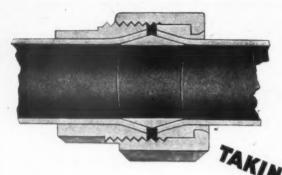
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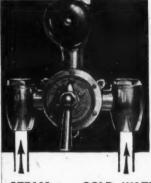
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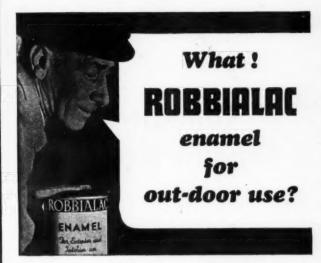
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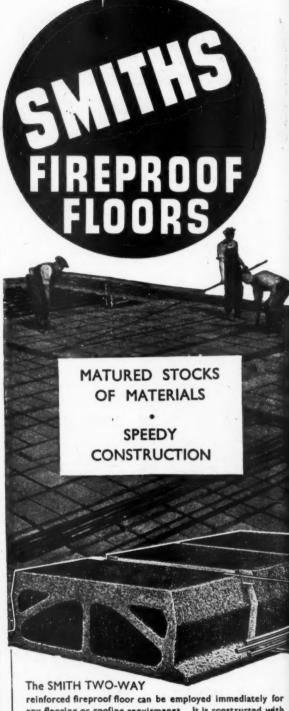


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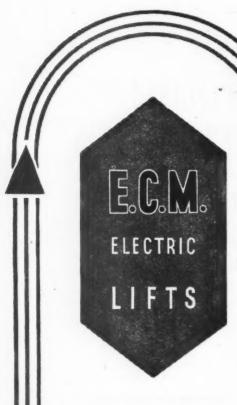
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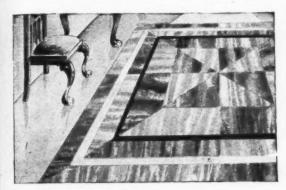


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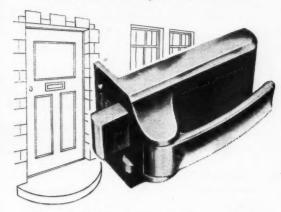
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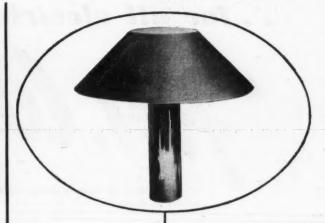
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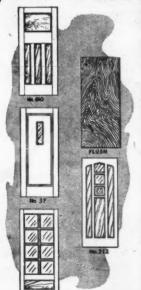
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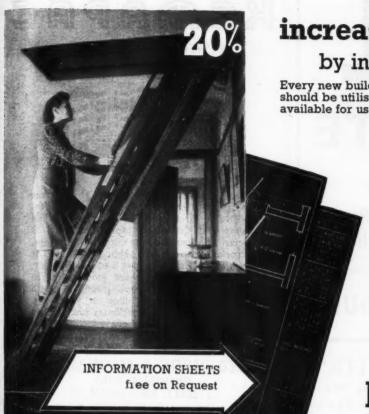


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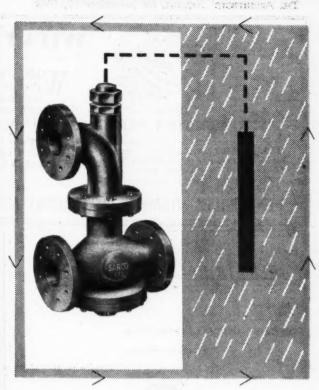
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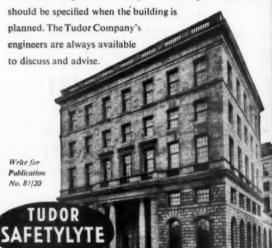
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Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Half, Westminster Bridge, S.E.I. (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing dispatition.

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IV. V (£489-£570, consolidated). Applicants should be associate Members of the Town Planning Institute and have had some planning experience. Architectural qualifications will be an additional recommendation.

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These appointments are subject to the National Joint Industrial Council's Conditions of Service, and the Local Government Superannuation (Scotland) Act, 1937. The successful applicants will be required to pass a medical examination. Applications, giving age, qualifications, and perficulars of present and previous appointments, and accompanied by copies of not more than three recent testimonials, should be lodged with the undersigned within 14 days from the appearance of this advertisement.

ROBT. C. MONTEATH,

County Offices, Kirkcudbright.

County Offices, Kirkcudbright. 9th November, 1949.

CHESHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

APPOINTMENT OF PLANNING STAFF.

Applications are invited for the following appointments, which are on the permanent establishment of my department.

The posts are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to act under the direction of the County Planning Officer and, in the case of area appointments, under the direction of the Area Planning Officer in the preparation of a development plan for the Town and Country Planning Act, 1947.

The successful applicants will be stationed at Chester or Stockport, and applications should indicate the applicant's preference:—

(a) SENIOR PLANNING ASSISTANT. Salary A.P.T., V-VI (£520-£660).

Applicants for this position should be Corporate Members of the Town Planning Institute. They must have had considerable experience in all aspects of statutory planning, development control and planning procedure.

(b) PLANNING ASSISTANT. Salary A.P.T., III-IV (£450-£525).

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Applicants for this position should have obtained the Intermediate Examination (or equivalent) of one of the recognized professional institutes, and preference will be given to candidates who are experienced in Town and Country Planning. In the case of the Headquarters (Chester) appointment, training in architecture will be an advantage.

The commencing salary for appointment (a) will be £520 p.a. and for appointment (b) £450 p.a.

Forms of application, together with details of the duties and conditions attaching to the appointments, may be obtained from me on receipt of a stamped and addressed foolscap

envelope.

The last date for the receipt of completed applications is Wednesday, the 30th November.

KENNETH O. MALE, County Planning Officer.

Bridgegate House, Lower Bridge Street, Chester.

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BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the established staff appointment of:—

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Candidates must be under 48 years of age, unless in Local Government Service. The appointment will be subject to the Local Government Superannuation Act, 1937, and to medical examination.

A statement of the duties and a Form of Application may be obtained from the Borough Architect, Guildhall, Swansea, and must be returned to the undersigned by the 28th November, 1949.

T. B. BOWEN.

T. B. BOWEN, Town Clerk.

Guildhall, Swansea.

3rd November, 1949.

SURREY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT, Grade VI at a commencing salary of £595, rising by annual increments of £20,£25 to a maximum of £660 per annum, plus London allowance of £30 per annum.

commencing salary of 2595, rising by anudal increments of £20/£25 to a maximum of £660 per annum, plus London allowance of £30 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects.

The appointments will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 26th November, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommendation, and the successful applicant will be required to make his own arrangements in this direction.

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County Hall, Kingston-upon-Thames.

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construction, and Municipal engineering advantage.

Applications to be made on the prescribed forms (which contain particulars and conditions of appointment), obtainable from the under-signed, by whom applications must be received not later than 23rd November, 1949.

W. F. J. CHURCH,

Town Clerk.

Town Hall, Chiswick, W.4. November, 1949.

COUNTY BOROUGH OF GREAT YARMOUTH.
BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF SENIOR ASSISTANT
ARCHITECT (SCHOOLS).
Applications are invited for the appointment of a Senior Assistant Architect (Schools), at a salary in accordance with A.P.T., Grade VI (£595-£660 per annum) of the National Conditions of Service.
Preference will be given to Associates of the Royal Institute of British Architects, and applicants should have had previous experience in modern school design.
The appointment will be terminable by one month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, and the passing of a medical examination.
Applications, stating age, qualifications, and experience, together with the names of three persons to whom reference can be made, should reach me not later than Monday, 28th November, 1949.
Canyassing will be deemed a disqualification.

Canvassing will be deemed a disqualification, and candidates must disclose in writing any relationship to any member of or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and, if appointed, liable to dismissal without notice.

FARBA CONWAY, Town Clerk.

Town Hall, Great Yarmouth. 5th November, 1949.

GOVERNMENT OF NORTHERN IRELAND.
CIVIL SERVICE COMMISSION
CHIEF ARCHITECT'S BRANCH.
Applications are invited for ASSISTANT
ACHITECT posts in the Ministry of Finance.
Subject to a probationary period of two years,
the posts are permanent and pensionable.
Remuneration: The scale is £500×25-£750.
The entry point to this scale depends on age.
vis., £500 at age 26, plus or minus £25 for each
year above or below that age. The upper entry
point is, however, subject to a limit of £650 per
annum.

point is, however, subject to a limit of £650 per annum.

Qualifications: Candidates must be Registered Architects and have passed the Final Examination of the Royal Institute of British Architects. In addition, they must have had at least two years' experience in an Architect's office or department in the preparation of working drawings for new buildings.

Preference will be given to candidates who have served in H.M. Forces in wartime, provided that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

Closing date for receipt of applications: Applications must be made on the prescribed form. Service Commission, Stormont, Belfast, and must be returned, duly completed, with copies of two recent testimonials, so as to reach him not later than the 5th December, 1949.

GLENROTHES DEVELOPMENT

than the 5th December, 1949.

GLENROTHES DEVELOPMENT
CORPORATION.

Applications are invited from suitably qualified persons (under 45 years of age) for the following appointment:
JUNIOR ASSISTANT ARCHITECT. Salary £400×£20 to £520 per annum.

Applicants should have passed at least the Intermediate Examination of the R.I.B.A.
The post will be superannuable under the Local Government (Scotland) Act, 1937, and successful candidate will be required to pass a medical examination.

examination.

Particulars of the assistance which the Corporation will give in securing housing accommodation will be given at the time of interview.

Canvassing, directly or indirectly, of members of the Corporation will constitute an absolute disqualification.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the undersigned not later than 26th November, 1949.

J. N. ROGER,
Secretary.

Secretary. Auchmuty House, Markinch. 24th October, 1949.

Auchmuty House, Markinch.

24th October, 1949.

24th October, 1949.

RERTFORDSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Vacancies exist in the under-mentioned Offices of the County Planning Department:—

(a) PLANNING ASSISTANT (Grade IV, A.P.T., £480-£525), in the County Planning Department.—

(a) PLANNING ASSISTANT (Grade IV, A.P.T., £480-£525), in the County Planning Department.—

Membership of the T.P.I. is desirable. Previous experience in the preparation of a County Survey and Development Plan, together with skill in draughtsmanship, is essential. Qualifications in Architecture. Municipal Engineering, Survey of Landscape Design, will be an advantage.

(b) PLANNING ASSISTANT (Grade II, A.P.T., £420-£455), in the North Herts Divisional Planning Office. Town Hall, Baldock Applicants must be competent draughtsmen and be students of the T.P.I., LC.E., LMun.E., R.I.B.A., or R.I.C.S., or have had special training at a University or Technical College. The Intermediate Examination of one of these Institutions, or a qualification of equivalent standard, will be an advantage.

Both appointments are established posts, on the permanent staff, and are subject to the provisions of the Local Government Act, 1937.

Forms of application are available from the County Planning Officer, County Hall, Hertford, and these are returnable not later than 5th December, 1949.

lxxxiii

KENT EDUCATION COMMITTEE.
ERITH TECHNICAL COLLEGE, ERITH
ROAD, BELVEDERE.

KENT EDUCATION COMMITTEE.

ERITH TECHNICAL COLLEGE, ERITH

Applications are invited for the post of HEAD
OF THE DEPARTMENT OF BUILDING.
Applicants should be suitably qualified in one of
Architecture, Building, Civil Engineering or
Surveying. Practical experience in the industry
will be an additional qualification. Burnham
(Technical) Scale salary (£700×£25-£256, with
additions for training and degree). Forms of
application from the Principal.

2689

OXFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following
appointments:—
(a) ONE ASSISTANT ARCHITECT. A.P.T.,
Grade VII. £53-£710.
(b) ONE PRINCIPAL. QUANTITY SURVEYOR. A.P.T. Grade VII. £635-£710.
(c) TWO ASSISTANT ARCHITECTS. A.P.T.,
Grade VII. £53-£70.

Candidates for (a) must be Associates of the
R.I.B.A. and have good experience in a County
Architect's office, particularly regarding Police,
Welfare and Fire Brigade work, and may be
required to own and drive a car, for which an
allowance on the Council's scale will apply.
Candidates for (c) must be Associates of the
R.I.C.S. (Quantities).

Candidates for (c) must be Associates of the
R.I.B.A. with sound knowledge of school design
and construction.

The appointment will be subject to the provisions of the Local Government Superannuation
Act. 1937, and the successful candidates will be
required to pass a medical examination to the
satisfaction of the Council.

The Scheme of Conditions of Service of the
National Joint Council for Local Authorities'
Administrative. Professional, Technical and
Clerical Services, as from time to time amended,
and as adopted by the Council, is at present
applications, stating age, qualifications and
experience, accompanied by copies of three recent
testimonalis, are to be sent to the Council seatilisations and
experience, accompanied by copies of three recent
testimonalis, are to be sent to the Council and

staff.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, are to be sent to the County Architect, 3, Becket Street, Oxford, not later than 30th November, 1949.

F. G. SCOTT, Clerk of the Council. County Hall. Oxford.

PLYMPTON ST. MARY RURAL DISTRICT COUNCIL. APPOINTMENT OF TEMPORARY CLERK OF WORKS.

WORKS.

Applications are invited for the appointment of a temporary Clerk of Works, in the Council's Housing Department, at a salary of £375 per annum, rising by annual increments to £420 per

Applicants must have had experience in supervising the erection of houses, be capable of setting out works, and possess an extensive knowledge of the building trades.

Applications, in candidates' own handwriting, stating age, experience and details of present appointment, together with copies of two recent testimonials, must reach the undersigned not later than the 28th November, 1949.

PERCY T. LOOSEMORE, Council Offices, Plympton, South Devon. 2666

Council Offices, Plympton, Soath Devon. 2666

COUNTY BOROUGH OF HALIFAX.
BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the appointment of ARCHITECTURAL ASSISTANT (SCHOOLS).
Salary in accordance with Grade VI. A.P.T. (2595-2660 per annum).
Candidates should possess appropriate technical qualifications, and will be required to pass a medical examination. The appointment will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937.
The Corporation is purchasing property for conversion into flats. One of these flats will be made available, if necessary to the person appointed to this position.
Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, appropriately endorsed, abould be delivered to the undersigned not later than Saturday, 19th November, 1949.
RICHARD DE Z. HALI,
Town Cletz.

COUNTY BOROUGH OF CARLISLE.
CITY ENGINEER'S DEPARTMENT.
Applications are invited for the following appointments:

(a) PEINCIPAL ASSISTANT ARCHITECT (GENERAL). Grade VII, £635-£710.
(b) PRINCIPAL QUANTITY BURVEYOR. Grade VII, £635-£710.
Applicants for appointment (a) must be Members of the Royal Institute of British Architects, and applicants for appointment (b) must be Associates of the Royal Institute of Charlered Surveyors.

be Associates of the Royal Institute of Chartered Surveyors.

Housing accommodation will be provided for successful applicants, if required.

Forms of Application and Conditions of Employ-ment may be obtained from the City Engineer, 13, Pisher Street, Carlisie, to whom applications should be returned not later than Thursday, 1st December, 1949.

E. D. A. ROBERTSON.

H. D. A. ROBERTSON, Town Clerk 15, Fisher Street, Carlisle.

BOROUGH OF ACCRINGTON.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of a Quantity Surveyor, in the Borough Engineer's Department, at a salary in accordance with Grade IV of the A.P.T. Division of the National Scales of Salaries (£400.£555 per annum).

Applicants must have had experience in the preparation of estimates and bills of quantities, in measuring up and in the adjustment of final accounts for housing schemes and other work. Preference will be given to applicants holding appropriate qualifications.

The appointment will be subject to termination by one month's notice on either side, to the National Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, endorsed "Quantity Surveyor," stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should be sent so as to reach me not later than the 1st December, 1949.

Town Hall, Accrington.

7th Navamber 1949.

2676

Town Hall, Accrington. 7th November, 1949.

7th November, 1949.

Amended Advertisement.
BOROUGH OF ACCRINGTON.

APPOINTMENT OF CHIEF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant, in the Borough Engineer's Department, at a salary in accordance with Grade VII of the A.P.T. Division of the National Scales of Salaries (£635-£710 per annum).

the National Scales of Salaries (£635-£710 per annum).

Applicants must be Registered Architects, and must have had experience in the design of housing estates, the construction of houses by contract, and the construction and alteration of public buildings.

Preference will be given to additional appropriate qualifications.

The appointment will be subject to termination by one month's notice on either side, to the National Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, endorsed "Chief Architectural Assistant." stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should be sent so as to reach me not later than the 1st December, 1949.

Town Hall Accrington.

Town Hall, Accrington. 7th November, 1949.

Tth November, 1949.

ESSEX EDUCATION COMMITTEE.

SOUTH-EAST ESSEX TECHNICAL COLLEGE
AND SCHOOL OF ART.

Applications are invited from suitably qualified candidates for the post of PRINCIPAL of the South-East Essex Technical College and School of Art.

The College and School of Art serves the populous extra-Metropolitan area of South Essex and industrial areas bordering Thameside. It has a considerable development of full-time and part-time day work and a large amount of evening work of an advanced nature, and is organized in the following Departments:

Engineering and Building, Chemistry and Biology,
Physics and Mathematics.

Arts,

Physics and manner.
Arts,
Commerce,
Domestic Science.
The salary scale is £1.250 per annum, by annual increments of £50 to a maximum of £1.550 per annum, plus London training and graduate allowances. A starting salary above the minimum may approved.

ances. A starting salary above the minimum may be approved.
Those who applied to a recent advertisement for this post should write stating whether they wish their applications to stand.
Further particulars and a form of application, which should be returned without delay, may be obtained from the undersigned on receipt of a stamped addressed envelope.

D. N. BUNGEY.

Acting Chief Education Officer.
County Offices, Chelmaford, Essex. 2692

BOROUGH OF WALTHAMSTOW.

County Offices, Chelmstord, Essex.

BOROUGH ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECT'S.

Applications are invited for the permanent appointments of TWO SENIOR and ONE JUNIOR ASSISTANT ARCHITECTS.

Excellent opportunities are afforded to take responsibility and to use initiative in the design and supervision of schemes.

The salaries of the Senior Architects will be in accordance with Grades VIVII (££25-£740) of the Scales of Salaries of the National Joint Council for Local Authorities' Administrative, Professional and Technical Division.

Applicants must be registered Architects, suitably qualified, and must possess a high degree of sbility in design and construction, have had experience in the design and supervision of rodern houses and flats, and be capable of organising and controlling contracts.

The successful applicant will on appointment be placed at an appropriate place within the scales, according to his experience. If placed within Grade VI I, subject to satisfactory service.

The salary of the Junior Assistant Architect will be in accordance with Grades I/V (£430-£509) of the Scales of Salaries of the National Joint Council for Local Authorities' Administrative. Professional and Technical Division.

Applicants should have had experience in the preparation of working and detailed drawing for various classes of buildings, and should be a registered Architect or have passed the Intermediate Examination of the Royal Institute of British Architects, or be preparing for the examination.

The successful applicant will, on appointment be placed in one of the Grades from I/V, appropriate to his experience and qualifications, in accordance with the recommendations of the National Joint Council for the grading of Architects and Assistants. Subject to becoming qualified for promotion in accordance with the above recommendations, and to satisfactory service, he will proceed to the appropriate Grade.

The appointments will be subject to the Loal Government Superannuation Act, 1937, to the National Joint Council's Conditions of Service, to the successful candidates passing a medical examination, and to termination by one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by names and addresses of two persons to whom reference may be made, must reach the undersigned, endorsed "Assistant Architect," not later than Saturday, 28h November, 1949.

Canvassing in any form will be deemed a disqualification, and applicants must disclose any relationship to any member of the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the Council or holder of any senior office under the C

Town Hall, Walthamstow, E.17. 10th November, 1949.

10th November, 1949.

10th November, 1949.

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF SENIOR PLANNING
ASSISTANTS (ARCHITECTURAL), A.P.T.,
GRADE VI.

Applications are invited for the appointment of
Senior Planning Assistants (Architectural), in the
Headquarters' Office at' Presten, and the
Lancaster, Liverpool, Wigan, Bury and Manchester Divisional Planning Offices of the County
Planning Department.

The commencing salary of each appointment
will be within the range of £595-£660 per annum,
according to qualifications and experience.

Applicants should possess a Degree in Architecture and/or be Corporate Members of the
Royal Institute of British Architects.
Previous planning experience is not essential
but preference will be given to applicants who
possess a qualification in Town and Country
Planning, and have had experience in the preparation of detailed plans for residential, indutrial and central areas.

The appointments are subject to the Schem
of Conditions of Service of the National Joint
Council and to the provisions of the Local
Government Superannastion Act, 1937.

Applications, stating age, qualifications, experence and present salary, together with the name
and addresses of two persons to whom reference
may be made, should be forwarded to the Const
Planning Officer, County Offices, Preston, not
later than Saturday, the 3rd December, 1949.

Applicants should indicate clearly for which
appointment superanday the 3rd December, 1949.

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appointment superanday the 3rd December, 1949.

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appointment superanday the 3rd December, 1949.

Applicants should indicate clearly for which
appointment superanday the 3rd December, 1949.

County Offices, Preston, and
Elerk of the County Council

R. H. ADCOCK,

Clerk of the County Council
County Offices, Preston.

County Offices, Preston.

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

Applications are invited for the fellowing appointments in the Architect's Department of the Headquarters Staff:—

(1) ASSISTANT QUANTITY SURVEYORS:
(3) Salary Grade VI, A.P.T. Division (£5%-£560). Permanent Staff.
(5) Salary Grades II-IV, A.P.T. Division (£5%-£560). Temporary Staff.
(c) Salary Grades II-IV, A.P.T. Division (£5%-£525). Permanent Staff.
Applicants for (a) and (b) should have good experience in the preparation of bills of quantities, specifications and detailed approximate estimates, the settlement of final accounts and valuations for interim certificates. Preference will be given to those who have had experience of hospital work, including alterations and adaptations of existing buildings. Applicants for (c) must be fully experienced in "working-up" and able to take measurements on site and check accounts.

and able to take measurements on site and check accounts.

(2) ADMINISTRATIVE OFFICER:
Salary Grade III, A.P.T. Division (£450-£450).
Permanent Staff.

Applicants should have good general experience of administration and office routine; knowledge of the work of an Architect's office will be considered an additional qualification.

The appointments will be subject to the National Health Service (Superannuation) Regulations, 1947/48, and the successful candidates will be required to pass a medical examination. Applications, stating age, qualifications, experience and the present appointment, together with the names of three referees, should reach the undersigned not later than 28th November, 1949.

K. V. F. MORTON.

K. V. F. MORTON. Secretary.

117, Chesterton Road, Cambridge.

DERBYSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentened appointments on the permanent staff.
Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.

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for ointment for Local Authorities, as adopted by the County Council.

QUANTITY SURVEYORS:

(a) A.P.T., Grade VIII. Salary £685×£25 to £760 per annum.
(b) A.P.T., Grade VII. Salary £635×£25 to £780 per annum.

(c) A.P.T., Grade III. Salary £450×£15 to £780 per annum.

Applicants for (a), (b) and (c) must nave had experience in the preparation of estimates, taking-figurantities for all trades, measuring up and preparing final accounts.

Applicants for (a) and (b) must also be in possession of an appropriate professional qualification.

passession of an appropriate professional qualifaction.

ASSISTANT ARCHITECTS:
(d) A.P.T., Grade IV. Salary £480×£15 to
£25 per annum.

Applicants for (d) must have had a good general
architectural experience and must have passed
the Intermediate Examination of the Royal
Institute of British Architects or its equivalent
at one of the recognized Schools of Architecture.

LAND SURVEYING ASSISTANT:
(e) Grade I, £390-£435 per annum.
Applicants for (e) must be capable draughtsmen and competent to prepare site surveys and
take levels.

ASSISTANT CONSTRUCTIONAL ENGINEER:
(f) Grade IV, £480×£15 to £525 per annum.
Applicants must be experienced in the preparation of design calculations and details for steel
and/or re-inforced concrete framed structures, and
must have a sound knowledge of building construction and be neat and competent draughtsmen.

The appointments will be terminable by one

The appointments will be terminable by one month's notice on either side, and anhiect to the provisions of the Local Government Superannation Acts, and the successful candidates will be required to pass a medical examination.

The County Council is not in a position to assist successful applicants with housing accumedation.

Canvassing members of the Council, directly or indirectly, will be a disqualification for appointment.

ment.
Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of three recent testimonials, not later than 26th November, 1949.

November, 1949.
Eavelopes and applications must be endorsed sating clearly the vacancy for which the application is made.

F. HAMER CROSSLEY, Dipl. Arch.,
A.R.I.B.A...
County Architect.

St. Mary's Gate, Derby. 17th November, 1949.

St. Mary's Tate, Derby.

17th November, 1949.

2661

LUNESDALE RURAL DISTRICT COUNCIL.

Applications are invited for the appointment of a TECHNICAL ASSISTANT in the Council's Architect's Department, at a salary in accordance with Grade II of the National Joint Salaries Stale, vis., £420×£15—£465.

The successful applicant will be required to work under the supervision of the Architect primarily in connection with the preparation of Sills of Quantities, the Measurement of Executed Works, and the Settlement of Contractor's Accounts. He will also be required to render such the assistance in the general work of the department as may reasonably be required of him.

The appointment is definitely for the purpose of Housing Capital Constructional Works and necessarily of a temporary nature.

The appointment will be subject to the Local Government Superannustion Acts, 1937 and 1939, and to the National Joint Council's Scheme of Service Conditions, and will be determinable upon one month's notice on either side.

Applications, giving particulars of age, experience, and qualifications, accompanied by three recent testimonials, should be forwarded to the undersigned, to be received not later than the 2nd day of November, 1949.

J. M. ARROWSMITH.

Conneil Offices, Hornby, near Lancaster.

10th November, 1949.

2665

BOROUGH OF SOUTHALL.

ARCHITECTURAL STAFF.
Applications are invited for the following permanent appointments:—

(1) SENIOR ARCHITECTURAL ASSISTANT. Salary in accordance with Grade A.P.T., Va, of the National Scheme (£550-£610), plus appropriate London weighting.

(2) ARCHITECTURAL ASSISTANT. Salary in accordance with Grade A.P.T., IV, of the National Scheme (£480-£255), plus appropriate London weighting.

(3) ARCHITECTURAL ASSISTANT. Salary in accordance with Grades A.P.T., II and III, of the National Scheme (£480-£495), plus appropriate London weighting.

(4) JUNIOR ARCHITECTURAL ASSISTANT.
Salary in accordance with Grade A.P.T., II, of the National Scheme (£490-£455), plus appropriate London weighting.

(4) JUNIOR ARCHITECTURAL ASSISTANT. Salary in accordance with Grade A.P.T., II, of the National Scheme (£420-£455), plus appropriate London weighting.

Applicants for (1) must be Members of the Royal Institute of British Architects.

Housing accommodation will be made available

for the successful candidate for post (1), if married.

nor the successful candidate for post (1), if married.

Applicants for (2) and (3) should have passed the R.I.B.A. Intermediate Examination.

Applicants for (4) should be well advanced in preparation for the R.I.B.A. Intermediate Examination.

Candidates for all posts should have had previous Local Government experience.

The posts are subject to one month's notice on either side and to the Local Government Superannation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him not later than Monday, 5th December, 1949.

J. S. SYRETT.

J. S. SYRETT, Town Clerk.

Town Clerk's Office, Southall. November, 1949. 2664

November, 1949.

CARMARTHENSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT.

Applications are invited for the appointment of Deputy County Architect, in the service of the Carmarthenshire County Council, at a salary of £850-£1,000 per annum.
Candidates must be Registered Architects and Fellows or Associates of the Royal Institute of British Architects, with considerable experience in the service of a Local Authority, particularly in the design and construction of public and educational buildings and houses, with good general experience in the handling of contracts.
The appointment will be subject to the provisions of the National Joint Council Scheme of Conditions of Service, and the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.
The appointment is terminable by three months!

applicant will be required to pass a medical examination.

The appointment is terminable by three months' notice on either side.

Forms of application may be obtained from the undersigned and must be returned accompanied by not more than three recent testimonials not later than Saturday, the 10th December, 1949.

Canvassing in any form will disqualify, and relationship to any member or senior officer of the County Council must be disclosed.

DANIEL JOHNS.

Clerk of the County Council.

County Offices, Carmarthen.

8th November, 1949.

Sth November, 1949.

Stransfer County Council.

County Architect's Department.

Applications are invited for the autointment of an Assistant Quantity Surveyor, Grade VI. Salary £595 to £650 per annum.

Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, site measuring, and in settlement of final accounts.

Full details of past and present appointments should be given.

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, full details of experience, salary required, and accompanied by copies of three testimonials, should be addressed to the County Architect, Surrey County Council. County Hall, Kingston-upon Thames, to reach him not later than the 3rd December, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be vnable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

Cierk of the Council.

County Hall, Kingston-upon-Thames.

2685

ST. PANCRAS BOROUGH COUNCIL.

APPOINTMENT OF TEMPORARY ASSE.

County Hall, Kingston-upon-Thames. 2685

ST. PANCRAS BOROUGH COUNCIL.
APPOINTMENT OF TEMPORARY ASSISTANTS IN ARCHITECT'S DEPARTMENT.
Applications are invited for the temperary appointments of SENIOR ASSISTANT ARCHITECT (Grade VI, £595-£660) and ASSISTANT ARCHITECT (Grade VI, £595-£660). London weighting, according to age, is payable in addition to the above scales. The commencing salary in each case may be varied according to qualifications and experience.
Candidates for either post must be suitably qualified and should have had good experience in the design and detailing of Municipal housing schemes and the construction of flats.
The Council are unable to assist in the provision of housing accommodation. Canvassing will disqualify. Applicants must disclose in writing whether they are related to any member or senior officer of the Council.
Applications by letter, stating age, training qualifications, experience, past and present engagements, together with copies of three recent testimonials, must be delivered to the undersigned not later than the 26th November, 1949.

R. C. E. AUSTIN.

Town Clerk.
St. Pancras Town Hall,
Euston Road, London, N.W.L.

St. Pancras Town Hall, Euston Road, London, N.W.1. 8th November, 1949.

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COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT
AND TOWN PLANNING OFFICER.
ASSISTANT ARCHITECT, A.P.T., V (£520-£570).
Applications from Registered Architects for the above permanent post, stating age, qualifications, experience, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, not later than 23rd November, 1949.
Candidates should have sound design ability and be experienced in the preparation of working drawings and estimates. The successful applicant will be engaged in the Education and General Section of the Department, but previous experience on Schools is not essential.

The appointment is terminable by one month's notice on either side. Canvassing will disqualify.

C. E. VIVIAN ROWE,

Town Clerk.

CORPORATION OF LONDON.

APPOINTMENT OF ARCHITECTURAL AND SURVEYING ASSISTANTS.

Applications are invited for the appointment of Architectural and Surveying Assistants in the City Surveyor's Office. Salaries will be within the range Higher Grade I, \$400 \times 225 - \$625\$. Commenjing salaries will be arranged according to qualifications and experience.

Applicants should be between the ages of 25 and 35 years of age and be Associate Members of the Royal Institute of British Architects or the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors (Building Sub-section). Applicants without these qualifications and who have passed the Intermediate Examinations of the R.I.B.A. or R.I.C.S. (Building Sub-section) will be considered. The appointments call for good draughtsmanship and a sound knowledge of building construction, specification writing, contract management, and general administrative ability.

The appointments are on a temporary basis, but candidates will be considered for transfer to the permanent staff as and when vacancies occur. Temporary service counts for superannuation.

The appointments will be subject to the provisions of the Corporation's Superannuation.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be forwarded to George Holliday, F.R.I.C.S., City Surveyor, Corporation of London, 55-61, Moorgate, E.C.2.

BOROUGH OF BUXTON.

APPOINTMENT OF SENIOR ARCHITEC.

BOROUGH OF BUXTON.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT AND JUNIOR ENGINEERING ASSISTANT.

Applications are invited for the following populatments in the Borough Engineer's De-

Applications are invited for the appointments in the Borough Engineer's Department:

(a) SENIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade V of the A.P.T. Division of the N.J.C. scales. Applicants must be registered Architects and have had experience in housing and estate development.

(b) JUNIOR ENGINEERING ASSISTANT, at a salary in accordance with Grade II of the A.P.T. Division of the N.J.C. scale. Applicants must have served articles to a Municipal Engineer, and preference will be given to candidates who have passed part of the appropriate professional examinations.

Applications, giving full details of age, qualifications, experience and present and past appointments, must reach the undersigned not later than Monday, the 21st November, 1949.

The appointments are determinable by one month's notice on either side, and are subject to the Local Government Superannuation Acts.

Canvassing, directly or indirectly, will disqualify, and candidates must state in their application if they are related or known to any member or senior officers of the Council.

A. C. W. RYLAND,

Borough Engineer.

Town Hall, Buxton. 7th November, 1949.

7th November, 1949.

BOROUGH OF TWICKENHAM.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment on Grade A.P.T., IV.Y (2510-2600).

Applicants must have passed the Intermediate Examination of the R.I.B.A. and experience with a Local Authority will be an advantage.

Applications, endorsed "Architectural Assistant" stating age, qualifications, present and previous appointments, and giving details of experience, should be accompanied by copies of two testimonials, and delivered to Mr. A. B. Knolles, B.Sc., M.I.C.E., York House, Twickenham, Middlesex, not later than 1st December, 1949.

Twickenham, Middlesex, not later than 1se December, 1949.

The successful applicant will be required to pass a medical examination, and the appointment will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side.

Canvassing will disqualify, and an applicant who is related to a member of or a Senior Officer of the Council should disclose the fact in his application.

W. H. JONES,

W. H. JONES, Clerk.

Municipal Offices, Twickenham.
4th November, 1949.

ESSEX COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

The Essex County Council invite applications for the appointment of SENIOR DRAUGHTS-MAN, on the established staff of the County Planning Department, at a salary not exceeding the maximum for Grade IV, A.P.T.D. (4525 a The salary will be fixed in accordance of the county sear).

the maximum for Grade IV. A.P.T.D. (\$625 a year).

The salary will be fixed in accordance with the qualifications and experience of the applicant appointed, but will not exceed the maximum salary for the post as stated above.

The person appointed will be responsible for the organization and supervision of the working of the Drawing Office at Headquarters; should be a skilled draughtsman and cartographer; be able to produce perspective and panoramic drawings; have had some experience in making models to scale; have a knowledge of lithographic and colour printing processes and photographic reproduction; and be able to interpret air photographs and direct the revision of Ordnance Survey sheets therefrom.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination to the satisfaction of the Council.

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as from time to time amended and as adopted by the County Council, is at present applicable to persons appointed on the stabilished staff.

Canvassing, directly or indirectly, will dis-

tablished staff.
Canvassing, directly or indirectly, will dis-

Canvassing, directly or indirectly, will disqualify.

Applications, stating particulars of age, education, qualifications, present post and experience, should be sent to the County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, as soon as possible. The names and addresses of three referees should be given.

JOHN E. LIGHTBURN,

Clerk of the County Council.

9th November, 1949.

2694

OLTY OF COVENTRY.
PLANNING DEPARTMENT.
Applications are invited for the following appointments on the permanent staff of the Planning Department:
(a) TWO JUNIOR PLANNING ASSISTANTS.
Grades A.P.T., I-III, according to experience.
(b) ONE STUDENT PLANNER. Grade, General Division, plus merit increments for degrees.

General Division, plus merit interests degrees.

Applicants for appointments (a) should be neat and exceditious draughtsmen, and should have had experience in either Research and Survey Work in connection with the preparation of the Development Plan or the Preparation of Layouts for Housing Estates and Industrial Areas.

Applicants for appointment (b) will be given every opportunity to obtain experience in various aspects of Town Planning with a view to ultimate qualification.

every opportunity to obtain experience in various aspects of Town Planning with a view to ultimate qualification.

The appointments are subject to the following:
(a) National Scheme for Local Government Officers, as amended by Coventry Corporation; (b) Local Government Superannuation Act, 1937, as amended respecting annuities for widows by the Coventry Corporation Act, 1936, and Coventry Municipal Officers Widows and Orphans Pension Fund; (c) medical examination, and (d) one calendar month's notice on either side.

Applications must be made on the forms obtainable from the undersigned, and should be returned completed not later than Thursday, the lat December, 1949.

D. E. E. GIBSON.

D. E. E. GIBSON.

City Planning Officer.

Planning Department, Earl Street, Coventry.

2654

Planning Department, Earl Street, Coventry.

2nd November, 1949.

Applications are invited for the appointment of ASSISTANT ENGINEER, Grade A.P.T. VII, on the Board's Headquarters Staff, Salary 2665×225-2740 (inclusive of London weighting).

Candidates should be Members or Associate Members of the Institute of Heating and Ventilating Engineers or the Institute of Mechanical Engineers, be capable draughtsmen. fully experienced in the design of Medern Heating. Hot Water, Steam and Ventilating systems for all types of Hospitals. Candidates should possess a sound knowledge of all mechanical equipment associated therewith.

Applications, together with the names of three referees, should be addressed to C. B. Nicol. Secretary. North-East Metropolitan Regional Hospital Board, Ila, Portland Place, London, W.1, to arrive not later than 10 days from the appearance of this advertisement.

MINISTRY OF TOWN AND COUNTRY

MINISTRY OF TOWN AND COUNTRY PLANNING.

Applications are invited for posts of TEM-PORARY PLANNING INSPECTORS, to be employed on conducting enquiries in connection with appeals under the Town and Country Planning Act, 1947.

Sa'ary scale in London: Men, £250~£30—£1.060 p.a.; women, £750~£25—£900 p.a.

Candidates must have professional qualifications in Architecture, Civil Engineering. Municipal and County Engineering, Estate Surveying or Land Agency. They must also have had practical experience in town and country planning, and preference will be given to Corporate Members of the Town Planning Institute.

Applications should be addressed to "K" Section, Technical and Scientific Register, York House, Kingsway, London, W.C.2., quoting reference number J.570/48/CB.

261

CITY OF STOKE-ON-TRENT.

RECONSTRUCTION DEPARTMENT.

Applications are invited for two appointments of THIRD PLANNING ASSISTANT in the Reconstruction Department. Salary A.P.T. Division, Grade III (£450 to £495 per snnum).

Preference will be given to candidates possessing an appropriate technical qualification, with practical experience of duties under the Town and Country Planning Act, 1947, particularly with reference to the preparation of development plans and redevelopment schemes.

Housing accommodation for married applicants will be considered.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of (a) the Local Government Superannuation Act, 1937, and (b) the National Scheme and Conditions of Service for Local Government Officers.

Applications in writing, stating age and particulars of previous experience, and accompanied by copies of not less than two recent testimonials, should be forwarded to the Reconstruction Officer, Reconstruction Department, Woodhouse Street. Stoke-on-Trent, in a sealed envelope endorsed "Third Planning Assistant," not later than 9th December, 1949.

HARRY TAYLOR, Town Clerk.

SOMERSET COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the following permanent apopintments:—
(a) SENIOR PLANNING ASSISTANT, in the Weston-super-Mare Office, A.P.T., V., £520, rising to £570 per annum.

(c) SENIOR PLANNING ASSISTANT, in the Weston-super-Mare Office, A.P.T., V., £520, rising to £570 per annum.

(b) JUNIOR PLANNING ASSISTANT in the Central Office. Taunton, A.P.T., I, £390×£15—£435 per annum.

(c) JUNIOR PLANNING ASSISTANT, in the Yeovil Area Office, A.P.T., I, £390×£15—£435 per annum.

All appointments are subject to the Local Government Superannuation Act, 1937.

Applicants for appointment (a) must be Members or Associate Members of the Town Planning Institute, and have had experience in a Planning Department for an area including both town and countryside.

Application of the Application of the Town ship of a recognized Professional Institution.

Applications are to be made on forms obtainable from the undersiened and must be submitted on or before Tuesday, 6th December, 1949.

R. W. DALE.

41. Udder High Street, Taunton, Somereet. 2679 COUNTY POROLIGH OF WOLLYFRHAMPTON.

APPOINTMENT OF SENIOR CLERK OF

41. UPDET HIGH STREET, TAUNTON, SOMERSE.
COUNTY PORDUIGH OF WOLVERHAMPTON, APPOINTMENT OF SENIOR CLERK OF
WORKS.
Applications are invited for the appointment of Senior Clerk of Works, in the Bornigh Engineer's Department, salary A.P.T., V (£520, rising to £570 per annum).

Department, satary A.P.T., v (£520, rising to £570 per annum).

Anolicants must have a sound knowledge of all Building Trades, and be thoroughly experienced in the duties of a Clerk of Works in the construction of Dwellings on a considerable scale, including setting out, levelling and measurement of work

of work. The person appointed will be responsible for supervising all Corporation Housing Contracts, and in this he will be assisted by Resident Clerks of Works statemed on various sites. He will be required to provide a car. for which an allowance in accordance with the Council's scale will be paid. The appointment is on the established staff and will be terminable by one month's rotice on either side, heing subject to the provisions of the Local Government Superannuation Act, 1937.

of the Local Government Superannagement 1937.

The successful candidate will be required to pass a medical examination. In the Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, Professional Technical and Clerical Services.

Applications, stating age, present position, and full details of experience, together with copies of three testimonials, should be delivered to the undersigned not later than 25th November, 1949, in plain sealed envelopes anitably endorsed.

J. BROCK ALLON.

Town Clerk.

Town Clerk.

Town Hall, Wolverhampton.

Town Clerk.

3rd November, 1949.

COUNTY BOROIGH OF BURNLEY.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT.

Andications are invited for the appointment of SENIOR ARCHITECTURAL ASSISTANT, at a salary in accordance with A.P.T.. Grade VI. of the National Scales (2595-266) per annum.

Applicants must be Associates of the Royal Institute of British Architects and the holding of additional qualifications will be an advantage. Considerable experience in architectural design and construction of general Municipal work, including housing and educational buildings, is essential.

including housing and educational Dullium, increasential.

Conditions of service are those formulated by the National Joint Council, and the appointment is on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, the successful applicant being required to pass a medical examination. The appointment is terminable by one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify the candidate, and any relationship to a member or senior officer of the Council must be clearly stated in the application.

IXXXVI

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall Burnley, to whom applications should be returned in the envelope provided not later than 12 noon on Saturday, the 10th December, 1949.

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Town Hall, Burnley. November, 1949.

November, 1949.

ROROUGH OF LLANELLY.

BOROUGH ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, in the Borough Architect's Department, at a salary in accordance with A.P.T., Grade IV, of the National Scale of Salaries (£480×£15—£525 per annum).

Applicants must hold the requisite qualification and be competent to undertake the preparation of Working Drawings, Details, and Quantities for Housing Schemes and other miscellaneous works generally carried out by the Architect's Department of a Local Authority.

The appointment, terminable by one month's notice on either side, will be subject to the provisions of the Local Government Superannation Act, 1937, and to the National Scheme of Conditions of Service.

The selected candidate will be required to pass a medical examination.

The selected candinate will be required by an amedical examination.

Applications, marked "Architectural Assistant," stating age, particulars of training, qualifications and experience, accompanied by copies of two recent testimonials, should be delivered to the undersigned, not later than the 26th November, 1949.

DAVID J. PHILLIPS. Town Clerk.

Town Hall, Llanelly.

Town Hall, Llanelly.

NORFOLK COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the permanent appointment of ASSISTANT ARCHITECT. at a salary in accordance with National Grade VI (£955-£660 per annum). Candidates must be registered Architects, and must hold a recognized architectural qualification; they must have had a good general architectural experience, and have a sound knowledge of design. construction, and specifications. The appointment will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side; National Scheme of Conditions of Service will apply. Applications must state clearly age, qualifications, full details of training, experience, and previous appointments with dates, salaries, and designations; the names and addresses of three persons to whom reference may be made must be stated. Applications must be delivered to C. H. Thurston, L.R.I.B.A., F.R.I.C. S. County Architect, 25, Thorpe Road, Norwich, by not later than Monday, 12th December, 1949.

County Offices, Thorpe Road, Norwich.

County Offices, Thorpe Road, Norwich. 10th November, 1949.

Tenders for Contracts

PEMBROKESHIRE COUNTY COUNCIL.

BUILD COMMITTEE.

Building Contractors, desirous of TENDERING for the ERECTION of either or both of the following SCHOOLS, are requested to submit their applications to Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, Pembrokeshire, not later than Monday, 21st November, 1949.

(a) SAGESTON COUNTY PRIMARY SCHOOL (60 Pupils), which is to have an ORLIT superstructure.

structure.

(b) MILFORD HAVEN NEW INFANTS'
SCHOOL (150 Pupils), which is of traditional con-

SCHOOL (180 rupus), when the struction. General Conditions and Bills of Quantities will be supplied on receipt of £5 5s. deposit, returnable upon receipt of a bonn-fide Tender or Tenders. Drawings, etc., can be inspected at the Office of the County Architect during the usual work-

Dawings, etc., can be inspected at the Office of the County Architect during the usual working hours.

No Tender will be considered unless submitted in the endorsed envelope provided for the purpose, and the Council does not bind itself to accept the lowest or any Tender received.

Contractors will be required to provide proof that they are in a position to provide the necessary labour to carry out the works.

Last day for receipt of Tenders is first post, Tuesday, 6th December, 1949.

Clerk to the Education Committee.

Clerk to the Education Committee.

Slat October, 1949.

METROPOLITAN WATER BOARD.

The Metropolitan Water Board invite tenders for the erection and completion of three Houses and all necessary site works at Lea Bridge Road.

E.10. in the Borough of Leyton.

Forms of tender, conditions of contract and bills of quantities may be obtained from the Board's Surveyor at these offices on production of an official receipt for two guineas.

This sum, which must be deposited with the Board's Treasurer and Comptroller at the address below, will be returned on receipt of a bona fide tender (which is not subsequently withdrawn). accompanied by all the above-mentioned documents. Such payments and applications must be made between the hours of 9 a.m. and 4 p.m. (Saturdays 9 a.m. and 11 a.m.). Cheques must be made payable to the Metropolitan Water Board and not to individuals.

wn Hall, returned

EY, 2700 MENT.

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Council.

CIL. ERING

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mittee. 2538 tenders Houses Road.

et and m the fuction th the ddress in fide (rawn). docu-

4 p.m. Board

The latest date for the receipt of deposits will be Monday, 28th November, 1949.
Tenders, enclosed in sealed envelopes addressed to the undersigned and endorsed "Tender for Houses at Lea Bridge Road, E.10," must be delivered at the offices of the Board (Room 122) set later than 12 noon on Monday, 2nd January,

The Board do not bind themselves to accept the lowest or any tender.

C. W. STOKER,

Clerk of the Board.

Offices of the Board, New River Head,
Rosebery Avenue, London, E.C.1.

2663

Competitions

kines or under, 10s.; each additional line, 1s. 6d.

UNIVERSITY OF EDINBURGH.

ABCHITECTURAL COMPETITION FOR
EXTENSION TO MEDICAL SCHOOL.

The University invite Architects to submit designs in competition for the extension of the Wedcal School on the North Side of George Square, Edinburgh, On the nomination of the Preddent of the Royal Institute of British Architects, the University have appointed Mr. A. G. R. Mackenzie, A.R.S.A., F.R.L.B.A., to ret as Assessor. Premiums of 1,000, 600, and 300 guineas will be paid to the Authors of the designs placed ist, 2nd and 3rd respectively. The Conditions of the competition may be obtained on application to the Secretary to the University, Old College, South Bridge, Edinburgh, on payment of two guineas, which will be refunded on receipt of a bona fide design or upon return of the Condition documents. Applications for Conditions should be received by 31st December, 1949. The design date for submitting designs is 2nd Reptember, 1950.

THE CEMENT AND CONCRETE ASSOCIA-

September, 1950.

THE CEMENT AND CONCRETE ASSOCIATION announce a Competition, open to Engineers and Architects, for designs for Prestressed, Reinforced or Plain Concrete Bridges over motorways. Prizes are £500, £300 and £200. Applications for Conditions, which will be available 1st December, 1949, should be made in writing to Cement and Concrete Association, £2, Grosvenor Gardens, S.W.I., accompanied by a postal order for one shilling.

Architectural Appointments Vacant

ARCHITECTURAL ASSISTANT and also ARCHITECTURAL DRAUGHTSMAN required in established practice, mainly business sensises over whole country; pleasant conditions; permanent and good prospects. Apply with all particulars to North & Partners, Queen Street Cambers, Maidenhead.

2192

Last MIDLANDS.—ASSISTANT, Inter. Final standard, required at once for private Architect's office; work mainly domestic. Hox 2453

A BCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; salary dependent on experience and qualifications. Apply personally by telephone or in writing. Pite Son & Fairweather, Chartered Architects, 6, Queen Anne's Gate, Westminster, 8.W.1. Whitehall 5576. 1862

A RCHITECTURAL ASSISTANT required in Company Architect's office in London; must be good draughtsman; salary commencing £400 to £600, according to experience. Applicants should state age, training, and experience, etc., to Box 2533.

A RCHITECTURAL ASSISTANT required.

A RCHITECTURAL ASSISTANT required;
with at least 5 years' office experience and
R.I.B.A. Intermediate standard, Welch &
Lander, FF.R.I.B.A., 38, Gloucester Place, W.1.
Welbeck 6551.

Welbeck 6551. 2549

ARCHITECTURAL ASSISTANTS, of Intermediate Examination or higher standard, are required to work with qualified Architects on interesting industrial and commercial projects at home and abroad, under the direction of J. W. Wilson, F.R.I.B.A., A.M.T.P.I., Company Architect. Reply, quoting age and experience, to Personnel Dept., Dunlop Rubber Co., Ltd., Erdington, Birmingham, 24.

Erdington, Birmingham, 24.

ARCHITECTURAL ASSISTANTS required for applicants should have reached Intermediate standard of R.I.B.A., be good draughtsmen, and possess a sound knowledge of building construction; canteen facilities available. Apply in writing, stating age, qualifications and experience, to Chief Staff Architect, Hford, Ltd., Romford, Essex.

to Chief Staff Architect, Illord, Ltd., Romford. Essex. 2557

A RCHITECT'S experienced ASSISTANT required; capable working drawings and detailing; various large projects; permanency, and good prospects for right man. Write J. W. Beaumont & Sons, Chartered Architects, 13, Collegiate Crescent, Sheffield, 10. 2541

NORTHERN POLYTECHNIC, HOLLOWAY, LONDON, N.7.

THE Governing Body invite applications for appointment as STUDIO MASTERS IN ARCHITECTURAL DESIGN AND WORKING DRAWINGS. The applicants should be Associates of the Royal Institute of British Architects, and preferably have been trained in a Recognized School. Previous teaching is an advantage, but is not an essential qualification. The salary is in accordance with the Burnham Scale; members of the staff are afforded reasonable facilities for private practice. Forms of application, together with full particulars, will be forwarded on receipt of a stamped addressed loolscap envelope.

R. H. CURRELL.

A RCHITECTURAL ASSISTANT required in small London office; R.I.B.A. Intermediate standard; salary according to experience. Write, giving particulars, to Box 2513.

A RCHITECTURAL DRAUGHTSMEN, up to Inter. R.I.B.A. standard, required; London area. Write, stating experience and salary, to Box 2531.

Box 2531.

Box 2531.

ARCHITECTURAL ASSISTANTS required, Inter. Final standard; also QUANTITY SURVEYING ASSISTANT (Worker-up); salaries up to £500 p.a. Reply, stating age, experience, and salary required, to Ruddle & Wilkinson, F./L.R.I.B.A., Long Causeway Chambers, Peterborough. Telephone 2166.

SENIOR ASSISTANT required in a Bank's Architect's office; good previous experience in the design and maintenance of office buildings essential; age 35-40; preferably an Associate of R.I.B.A.; permanency, with pension, for suitable applicant. Box 2610.

of R.I.B.A.; permanency, with pension, for suitable applicant. Box 2610.

LONDON ELECTRICITY BOARD.

A PPLICATIONS are invited for appointments of the Chief Engineer's Department in Central London.

The commencing salary will be from £350 per annum, dependent upon ability and experience. The salary is provisional; the salary and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

Applicants should be neat draughtsmen, and preferably have had several years' experience in an Architect's office. Successful candidates will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application forms, on receipt of an addressed foolscap envelope, obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, E.C.2, to be returned duly completed not later than 30th November, 1949, quoting reference EST/V/303/A.

RCHITECT or ARCHITECTURAL ASSISMAKING, required for postal critical work at home: in or near London; telephone essential. Box 2660.

ARCHITECT—Applicants are invited from mainlifed Architects for annentment to the qualified Architects for annentment to the qualified Architects for annentment to the qualified Architects for annentment to the

Box 2680.

ARCHITECT.—Applicants are invited from qualified Architects for appointment to the Professional staff of the Agricultural Bank, Hobart, Tasmania; salary range £A61.£A663, plus cost-of-living allowance, at present £78 per annum. Applications and enquiries to Agent-General for Tasmania, 457, Strand. London. W.C.2. 2673

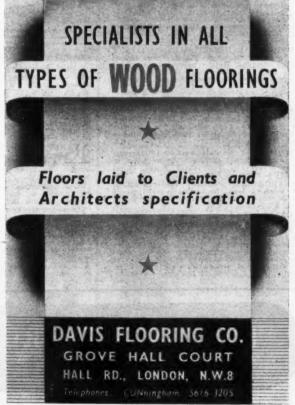
A SSISTANT ARCHITECT, A.B.I.B.A.: £700 per annum; designing and detailing projects; England and abroad, in Reema system; prospects for experienced man. 2684



FEATHERWEIGHT MINERAL FOR BUILDING AND INSULATING EXFOLIATED BY

167, VICTORIA STREET, S.W.I

Victoria 1414/5/6 & 7913



APPOINTMENT OF ARCHITECT.

APPLICATIONS are invited for the appointment of ARCHITECT in the Research and Design Department of the Timber Development Associates of the Royal Institute of British Architects; other qualifications required are administrative ability, a keen sense of contemporary design and an aptitude for the development of new techniques of construction and timber utilization; the successful candidate will be required to join the Association's Staff Superannation Scheme if invited to do so. Applications, stating age, qualifications, experience and salary required, should be addressed to the Director, Timber Development Association, Ltd., 75, Cannon Street, London, E.C.4, to be received not later than Monday, 5th December, 1949. 2682

CHANNEL ISLANDS.—W. H. Saunders & Son have a vacancy for a medium grade ARCHITECTURAL ASSISTANT in their Jersey office. Applications, together with full particulars, should be made, in the first instance, to 1, Cariton Crescent, Southampton. 2675

A RCHITECTURAL DRAUGHTSMAN, 1ntermediate standard, also APPRENTICE with
Higher Leaving Certificate, wanted for Glasgow
Architect's office, with large country connections.
Box 2674.

Rentitect's omee, with large country connectors. Box 2674.

PROMINENT Firm of London Architects requires qualified ARCHITECTURAL ASSISTANT's and JUNIOR ASSISTANTS, of Intermediate standard, for varied practice; salary by arrangement; West End office. Box 2666.

JUNIOR ASSISTANT required; accurate draughtsmanship and good knowledge of construction essential. Reply, stating age, experience, and salary required, to Cherrington & Stainton, FF.R.I.B.A., 2, Augustus Road, Edgbaston, Birmingham.

2647

ARCHITECTURAL ASSISTANTS required in Architects' Department of Engineering Firm; must be experienced in industrial work and be capable of preparing surveys, working drawings, details, etc. Write, stating experience, to Geo. Adlam & Sons, Ltd., Fishponds, Bristol.

COOD salary will be paid to a first-class W ARCHITECTURAL DRAUGHTSMAN, with sound knowledge of construction and previous office experience; required in an Architects and Surveyors' small office in 8-uth-West Essex. Please reply, with full particulars, to Box 2651.

ARCHITECTURAL ASSISTANT, A.R.I.B.A. standard, required at once; knowledge of School Design advantageous; salary according to experience. Gerald Shenstone & Partners, Chartered Architects, 34, Bloomsbury Way, W.C.1. Tel.: HOLborn 2271.

Tel.: HOLborn 227L. 2662

MANAGER for Flooring Department of well-known Firm; must have good knowledge of precast units, reconstructed stone; wall and floor tiling; Terrassa in all its aspects; composition flooring and granolithic, etc.; capable of estimating, taking off quantities, correspondence management, and control of small staff; able to discuss above specialities intelligently with architects and give instructions to works; only those who comply with foregoing requirements will be considered for interview. Apply in first instance with full particulars and salary expected to Box 2697.

JUNIOR ARCHITECTURAL ASSISTANT required (Male or Female), for general practice. Write, stating age, experience, and salary required, to G. Scott Baird, Chartered Architect, Salisbury Street, Blandford, Dorset.

Other Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

ESTIMATORS required; used to Architectural
Metalwork Apply personally or by letter
to Morris Singer Co., Ferry Lane Works, Forest
Road, Walthamstow, E.17. 2142

ESTIMATORS wanted; used to Brakepress work. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17.

Road, Walthamstow, E.17.

RAUGHTSMEN
Windows and Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17.

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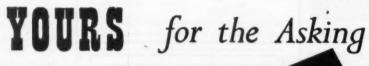
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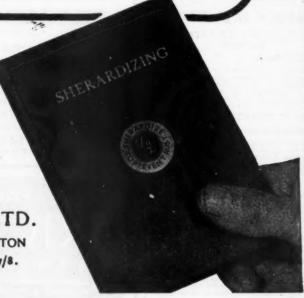
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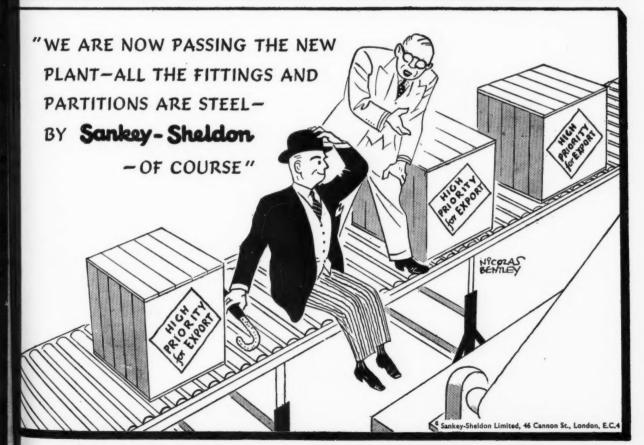
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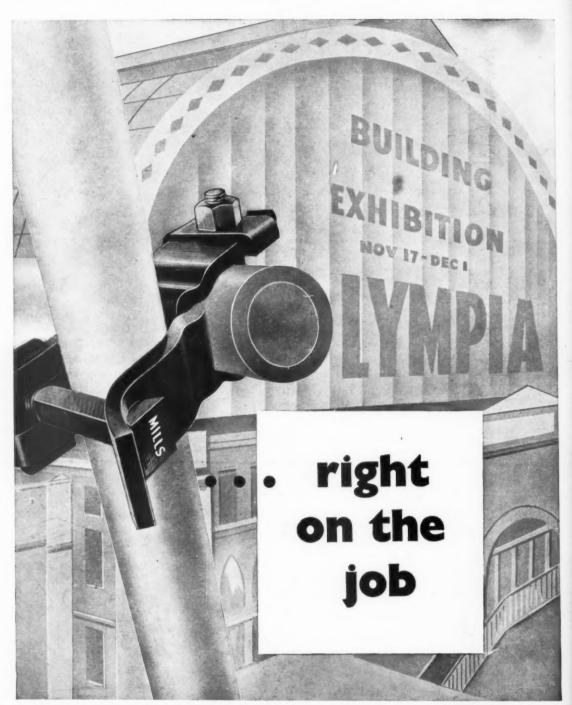
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Brookman, R. S., Ltd., Parkside Works, Rothley. Leics. (C.59) Bryce White & Co., Ltd., Deseronto Wharf, Langley, Slough. [E.84] Buckland Sand & Silica, Reigate Heath. Reigate. (G.140] Builder. Ltd., The, Catherine Street, Aldwych. W.C.2. (G.127) Builders Iron and Zincworks, Ltd., Cowper Road, N.16. (Gallery) Building, 33, Tothill Street, S.W.1. (Gallery) Lyzd, A. A., & Co., Ltd., 210, Terminus House, Grosvener Gardens, London, S.W.1. (T.304)

Cafferata Co., Ltd., Newark-on-Trent, c/o H. R. Baudry, 505, Wilbraham Road, Manchester, 21. [S.298] Callow & Keppich, Ltd., Shipham Road, Cheddar Som.
Campbell Engineering Co., Sherman Works,
Bromley, Kent.
Candy & Co., Ltd., Heathfield Station, Newton
Abbot, Devon.
Careers in Brickmaking.
Carter & Co., Ltd., East Quay Road, Poole, Dorset.
(F) 15 Carter & Co., Ltd., East Quay Road, Poole, Dorset. Carter & Co., Ltd., East Quay Road, Poole, Dorset. (D.76)
Caxton Publishing Co., Ltd., Club House, Surrey Street, London, W.C.2.

Cellon, Ltd., Kingston-on-Thames.

(H.171)
Cement & Concrete Association, 52, Grosvenor Gardens, S.W.1.

Cement Marketing Co., Ltd., 192, Ashley Gardens, S.W.1.

Chadwick & Shapcott, Ltd., Waltham Cross, Herts, East, Hertford.

Chaseside Engineering Co., Ltd., Station Works, East, Hertford.

Christopher, J., & Sons, 172, St. John's Street, Clerkenwell, E.C.

Cimex, Ltd., 68, Victoria Street, S.W.1.

J.1384
Clark, J., & Eaton, Ltd., Scoresby House, Glass Hill Street, S.E.1.

Clarke, Ellard & Co., Ltd., Works Road, Letchworth, Herts.

Clarmcrete, Ltd., 40, Broadway, Westmister. Herts. (Gallery) tte, Ltd., 40, Broadway, Westminster. [R.284] Clarmerete, Clarmcrete, Ltd., 40, Broadway, Westminster. S.W.1.
Clubley Armstrong, J., Danarm, Abford House, Wilton Road, S.W.1.
Clubley Attention Joint Council, 13, Grosvenor Gardens, S.W.1.
Code Lock, Ltd., 415, Oldfield Lane, Greenford, Middx.
Cohen, G., & Sons, Ltd., Cunard Works, Chase Road, N.W.10.
Cole, E. K., Ltd., Ekco Works, Southend-on-Sea, Cole, E. K., Ltd., Comber Road, Neasden, Lane, N.W.10.
Colours Sprays, Ltd., 64, Heath Street, Hampstead, N.W.3.
Colt Ventilation, Ltd., Surbiton, Surrey, [K.210]
Colt Ventilation, Ltd., Surbiton, Surrey, [K.210]
Colt W. H. (London), Ltd., Surbiton, Surrey, Colt Ventilation, Surrey, Colt, Bridgwater, Colt, Market Street, Bridgwater, Colt, Market Street, Market Street, Colt., Bridgwater, Colt., Surphys. Colt., Bridgwater, Colt., Colt., Colt., Colt., Colt., Bridgwater, Colt., Colt., Colt., Bridgwater, Colt., Colthurst, Symons & Co., Ltd., Bridgwater.
[D.75] Colthurst, Symons & Co., Ed., [D.75]
Somerset.
Concrete Products (Cheisea), Ltd., 685a, Fulhan
Road, S.W.6. [Gallery
Concrete Vibration, Ltd., 2, Caxton Street, S.W.1.
[B.31] Concrete Vibration. Ltd., 2, Caxton Street, S.w.I.

Cooksley, A., & Co., Ltd., 21/25, Tabernacle
Street, E.C.2.

Copperad, Ltd., Poyle Road, Colnbrook, Bucks.

J.191

Copper Development Association, Grand Buildings,
Trafalgar Square, W.C.2.

Cozens Ventilators, Ltd., Thistle House, Low Hill,
Liverpool, 6,
Tesset Fireplaces, Ltd., 436, Gt. West Road,
Hounslow, Middx.

Crittall Manufacturing Co., Ltd., 210, High
Holborn, W.C.1.

C.S.A. Industries, Ltd., Ava Works, Wharf Street,
Warwick.

(Vznet Joinery, Ltd., Park Hill Street, Bolton. Hollorii, W.J.A. C.S.A. Industries, Ltd., Ava Works, Wharf Street, (B.29) Cygnet Joinery, Ltd., Park Hill Street. Bolton. (Gallery)

Danckaerts Woodworking Machinery, Ltd.. 2, 4, 6, East Road, City Road, N.1. [F.108]
Davis, H. C., & Co.. Ltd., 1, The Pavement.
Clapham Common, S.W.4. [P.261]
Davis Parquet Resurfacing, Ltd., 221, Grove Hall (Gallery)
Department of Scientific and Industrial Research. [Gallery]
Design for Recreation. [Gallery]
Dexion, Ltd., 34, Fouberts Place, Oxford Circus, W.1. [Gallery]
Dixon, R. G., & Co., Ltd., Capital Works, Empire Way, Wembley. [C.51]
Dominion Machinery Co., Ltd., Hipperholme, Halifax, Yorks. [H.151]
Dorset Light Industries, Ltd., East Street, Brid-port, Dorset. [K.205a]
Downing, G. H., & Co., Ltd., Audley Road, Chesterton, Staffs. [G.136]

Drabble & Sanderson, Ltd., Elect Works, Savile Street, Sheffield, 1.
Drew, Clark & Co., Ltd., Lea Bridge Road, Leyton, E.10.
Unnlop Rubber Co., Ltd., St. James House, St. James, S.W.1.
Durabestos, Ltd., Horton Mills, Colnbrook, Bucks, 12,269
Durafencing, Ltd., 72, Victoria Street, S.W.1.
Urasteel Roofs, Ltd., Oldfield Lane, Greenford, Middx. (C.45)

Easiclene Enamel (1938), Ltd., Darlaston, N. Staffs. [L.222]
Easiwork, Ltd., Crowe Park, Gillingham, Kent. (A.9)
East Ham Education Committee, Technical College, Barking, Road, East Ham, E.6. [Gallery]
Eastwoods, Ltd., 158/160, City Road, E.C.1.
Eclipse Rail Track Ladder Co., Ltd., Staple Hill, Bristol. [G.137]
Econa Modern Products, Ltd., Agua Works, Warwick Road, Tyseley, Birmingham, 11.
Elgood, E. J., Ltd., Insulcrete Works, Yeoman Street, S.E.8. [S.90]
Elsy & Gibbons, Ltd., Havelock Street, South Cricklewood, N.W.10.
English Clock System, Ltd., Sectric House, Cricklewood, N.W.10.
English Fireplaces (Wimbledon), Ltd., Britannic Works, Haslemere Avenue, London, S.W.18. [J.199]
English Joinery Manufacturers' Association, Sack-ville House, 40, Piccadilly, W.1.

Works, Hastemere Avenue, [J.190]
English Joinery Mannfacturers' Association, Sackville House, 40, Piccadilly, W.1. [8.294]
Eustace & Partners, Ltd., Alliance Works, Western
Avenue, W.3.
Evans, F. H., & Co., 138, Plashett Road, Upton
Park, E.13., [Gallery]
Everburne, Ltd., 17, East Parade, Harrogate, [A.56]
Expanded Metal Co., Ltd., Burwood House,
Cayton Street, SWI

Expanded Metal Co., Ltd., Burwood Gaxton Street, S.W.1. Ltd., Burwood Expandite, Ltd., Cunard Road, N.W.10. [E.85] Ezee Kitchens, Ltd., 341a, Sauchiehall Street, Glasgow, C.2.

Federated Employer's Press, Ltd., &2, Cavendish Street, W.I.
Federation of Master Builders, 25, Gt. Ormond Street, W.C.1.
Felco Hoists, Ltd., 117, Victoria Street, S.W.1.
Felco Hoists, Ltd., 117, Victoria Street, S.W.1.
Ferguson, Edwards, Ltd., Abbey Road, Barking, Essex.
Ferodo, Ltd., Chapel-ea-le-Frith, Stockport.

[K.212]
Fibre Building Board Agents' Association, Ltd., Pinners Hall, Austin Friars, E.C.2. [Gallery]
Fibreglass, Ltd., Ravenhead, St. Helens, Lancs. [L.221]
Finch, B., & Co., Ltd., Belvedere Works, Barkingside, Essex.
Finlock Roofing Co., 20, St. Johns Street, Tunbridge Wells.
Fire Protection Association, 84, Queen Street, London, E.C.4.
[Gallery]
Fisher & Ludlow, Ltd., Albion Works, Kingsbury Road, Birmingham, 24.
Fisions, Ltd., Harvest House, Ipswich. [J.186]

Finners Hall, Austin Friars, E.C.2. [Gallery]
Fibreglass, Ltd., Ravenhead, St. Helens, Lancs. [L.221]
Finch, B., & Co., Ltd., Belvedere Works, Barks.
Finlock Roofing Co., 20, St. Johns Street, Tunbridge Wells. [T.310]
Fire Protection Association, 84, Queen Street, London, E.C.4.
Fisher & Ludlow Ltd., Albion Works, Kingsbury Road, Birmingham, 24.
Fisher & Ludlow Ltd., Albion Works, Kingsbury Road, Birmingham, 24.
Fisons, Ltd., Harvest House, Ipswich. [J.186]
Flexaire, Ltd., 108, Victoria Street, S.W.1.
Flexo Plywood Industries, Ltd., Flexo Works, South Chingford, E.4.
Flextol Engineering Co., Ltd., Flextol Works, The Green, W.5.
Floor Renovation (Nufloor), Ltd., 35, Lauriston Road, E.9.
Flush Woodwork, Ltd., 76-78, High Street South, East Ham, E.6.
Foamed Slag Producers' Federation, Ltd., Grallery)
Forsters Machine Co., Ltd., 17, Yeading Lanc, Hayes, Middx. [Gallery]
Freeman, J., Sons & Co., Ltd., Cementone Works, Wandsworth, S.W.18.
Froy, W. N., & Sons, Ltd., Branswick Works, Hammersmith, W.6.

Hammersmith, W.6. [Gallery]

G
Gardiner, Sons & Co., Midland Works, Bristol, 2. [D.80]
Gas Council, The, 1, Grosvenor Place, S.W.1.
Georgian Group, 27, Grosvenor Place, S.W.1.
Gerver, N., 6/10, Mare Street, Hackney, E.8.
Girlings Ferro-Concrete Co., Ltd., Feltham, Middx.
Gilksten Doors, Ltd., Carpenters Road, Stratford, E.15.
Good Lettering.
Goodwin, Baraby & Co., Ltd., 179/185, Gt. Portland Street, W.1.
Good Lettering.
Goodwin, Baraby & Co., Ltd., St. Margarets Ironworks, Leics.
Gotham Co., Ltd., Lancaster Place, Strand, W.C.2.
(D.236]
Grangersol, Ltd., Loates Lane, Watford, Herts.
[Gallery]

Grant & West, Ltd., 3, Furlong Road, N.7. [A.2] Graviner Mfg. Co., Ltd., Graviner Works, Gosport Road, near Fareham, Hants. [Gallery] Gravity Ladders, Ltd., Pickford Street, Bir-mingham, 6. Greenham, H. J., Ltd., Terminus Building. Road, near Fareham, Hants. (Gallery)
Gravity Ladders, Ltd., Pickford Street, Birmingham, 5.
Greenham, H. J., Ltd., Terminus Building,
G.W.R. Depot, Shepherds Bush, W.12.
Greenham (Plant Hire), Ltd., 671, London Road,
Isleworth, Middx. (H.158, J.193)
Greenwood & Hughes, Ltd., 113, Kingsway, W.C.2.
G.R.L., Plastics, Ltd., 518, Gt. Ermins, Caxlon
Street, S.W.I. (Gallery)
Gulf Radiator Co., Ltd., 7, Lygon Place, Grosvenor Gardens, S.W.1.
Gyproc Products, Ltd., Morris House, Jermyn
Street, S.W.1.
Gypsum Mines, Ltd., Mountfield, Robertsbridge,
Sussex. (S.293)

Hadfields (Merton). Ltd., Western Road.
Mitcham, Surrey. [B.33]
Hall Harding, Ltd., Stourton House, Dacre Street,
S.W.1.
Hancock Industries, 4, Park Mansions Arcade,
S.W.1.
Harper Mechanical Hods and Scaffhoists, Victoria
Works, Orts Road, Reading.
Harper Mechanical Hods and Scaffhoists, Victoria
Works, Orts Road, Reading.
Harvey, G. A. & Co. (London), Ltd., Greenwich
Metal Works, S.E.7.
Heffer, F. A., & Co., Ltd., 16, Sun Street, Finsbury Square, E.C.2.
Hesketh, Gordon, c/o Leslie Elder, 42, Watchfield,
Sutton Court Road, W.4.
[M.248]
Hewit Wall Plugs, Ltd., 4, Curzon Street, Park
Lane, W.1.
Heyman, B., 122, Bethune Road, London,
N.16. Hoisting Appliance Co., 35, Victoria Street, S.W.L. [Gallery] Holloway Metals Roofs, Ltd., 44, Queensland Road, London, N.7.

Hope, Henry, & Sons, Ltd., Smethwick, Birmingham. Hope, Henry, & Sons, Ltd., Smethwick, Bir-mingham.
Housing Centre, 17, Suffolk Street, S.W.1.

Hydrol Cement Waterproofers, Ltd., 11-14, Stan-hope Mews West, London, S.W.7.

Hyspecon, Ltd., 6, Stanley Park Road, Wall-ington, Surrey.

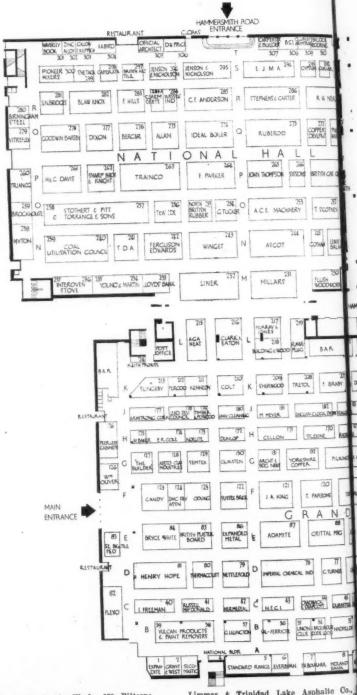
Ideal Boilers & Radiators, Ltd., Ideal House, Great Marlborough Street, W.1. [Q.274] Ide, T. W., Ltd., Glasshouse Fields, Ratcliffe, [O.256] Illustrated Carpenter & Builder, Wicklow Street, W.C.1.
Imperial Chemical Industries, Ltd., Nobel House, 2, Buckingham Gate, S.W.1.
Inc. Ass. of Architects and Surveyors, 75, Eaton Place, Beigrave Square, S.W.1.
Industrial Abrasives, Ltd., Mitre House, Western Road, Brighton.
Institute of Clayworkers, 4, Vernon Place, Southampton Row, W.C.1.
Interoven Stove Co., Ltd., 146, Marylebone Road, N.W.1.
Interwood, Ltd., Old Street, E.C.1.
[F.107]

Jenson & Nicholson, Ltd., Jenson House, Carpenters Road, Stratford, E.15. [8,295/5]
Jiewood, Weybridge, Surrey, J.K.O. Cutters, Ltd., c/o Kingscott, Ltd., 62, Fleet Street, E.C.4. [Gallery]
Johnson, A. [Paper], Ltd., Parkside Mill, Guiseley, Leeds.
Johnson, G., Bros., Ltd., Cornwall Road, N.15. Joseph, J. & S., Ltd., 3, Ascot Parade, Clapham Park Road, S.W.4. Joyce, W. N., & Sons, Ltd., 145/166, High Road, Whetstone, N.20.

Kango Electric Hammers, Ltd., Morden Factory Estate, Lombard Road, South Wimbledon, S.W.19. [J.137] Keith Prowse & Co., Ltd., 159, New Bond Street, W.1. [L.214] W.1. Kennedy, W., Ltd., Station Works, West Draylon. Middx.
Kine Engineering Co., Ltd., Muituo (K.211)
Kine Engineering Co., Ltd., Muituo Works, Horley, Surrey.
Kings, J. A., & Co., Ltd., 181, Queen Victoria (F.121)
Kings Langley Engineering Co., Ltd., Kings Langley, Herts.
Langley, Herts.
Lingston (Architectural Craftsmen), Ltd., Clough Road, Hull.
Kingswood Rural Industries, Witley, Surrey.
(Gallery)
K. & L. Steelfounders & Engineers, Ltd., Letch. K. & L. Steelfounders & Engineers, Ltd., Letchworth, Horts. Kwikform, Ltd., 194, Waterlee Road, Birming-fam, 25.

Lafarge Aluminous Cement Co., 75, Brook Str W.1. Ungley (London), Ltd., 72, Borough High Street, S.E.1.

PLAN OF THE BUILDING EX



Langton, H. S., Ace Ladder Works, 172, Bitterne
Road, Bitterne, Southampton. [L.228]
Lawler, Ayers & Co., Ltd., 54, Old Broad Street,
E.C.2. Hartin Ltd. 47, Hackney Bond, E. E.C.2.
Lawton, Martin, Ltd., 47, Hackney Road R.2.
[Gallery]
Lead Industries Development Council, Eagle
House, Jermyn Street, S.W.1.
Leng, C., & Sons, Ltd., Hazelweel Brush Works,
Birmingham, 50.
Lewis & Co. (Balham), Ltd., 10, Balham New
Road, S.W.12.
Lifeguard Products, Ltd., 21, Watling Street,
E.C.4.
Lillington, G., & Co., Ltd., 5/7, London Bridge Lillington, G., & Co., Ltd., 5/7, London Street, S.E.1.

Limmer & Trinidad Lake Asphaite Co., Steel House, Tothill Street, S.W.1. Linden Doors, Ltd., Stowmarket, Suffolk. Liner Concrete Machinery Co., Park Road, head 8. head. 8. ion Stamping Co., Ltd., 35, Marshgate Lion E.15. E.15.
Liotex Asbestos Flooring Co., Ltd., 10,
Road, London, S.E.16.
Lister, R. A., & Co., Dursley, Glos. [E.1
Lloyds Bank, Ltd., Lombard Street, E.C. Loft Ladders, Ltd., Broadway Works, Br Kent. Logical Coal Bunkers, Ltd., Tavu Waterloo, Huddersfield.



Ministry of Fuel and Power. [Gallery]
Ministry of Health.
Ministry of Labour and National [Gallery]
[Gallery] Ministry of Town and Country Planning.
[Gallery] istry of Works (DSIR), Romney House, arsham Street, S.W.1. [Gallery] tt, The (Birmingham), Ltd., Icknield Street, Marsham Succe, Mint, The (Birmingham), Ltd., Icknieu Galleryl Moffatt, Whitehart & Co., Ltd., Bradpark House, 316, Fore Street, Edmonton, N.9. (Galleryl Morris, B. O., Ltd., Marrisflex Works, Clay Lane, Galleryl Morris, B. O., Ltd., Marrisflex Works, Clay Lane, Galleryl Morris Reventry, Galleryl Marrisflex Works, Clay Lane, Galleryl M Coventry.

Marines Waquire, Ltd., 47, Red Lion Street London, W.C.L.

Murray & Jones, Ltd., Meredith Street, Plaisto

B.13.

National Colours, Ltd., Waterside Works, Offerton.
[C.51] National Colours, Lea, (C.51)
Stockport,
National Federation of Clay Industries, 30, Gordon
Street, W.C.1. (C.43)
National Federation of Building Trades Employers, 82, New Cavendish Street, W.1.
[Gallery] National Flooring Co., 183, Hammersmith Road, [A.16] W.6.
National Plywood Corporation, Ltd., Carpenters
[E.15] National Plywood Corporation (E.15)
Road, Stratford.
Natural Asphalte Mine Owners' & Manufacturers'
Council, 94, Petty France, S.W.1. (D.67)
Neal, R. H., & Co., Ltd., Plant House, Ealing,
W.5. (R.287) N.5. [R.227]
Nettlefold & Sons, Ltd., Nettlefold House, 163.
Euston Road, N.W.1. [D.79]
Neuchatel Asphalte Co., Ltd., 58, Victoria Street, S.W.1. S.W.1. (E.100)
New Era Publishing Company, Limited, Pitman House, Parker Street, W.C.2. IB.201
Noelite, Ltd., Borough Green, Kent, IH.173
North British Rubber Co., Ltd., Castle Mills Edinburgh, 3. (H.160)
Northern Steel Scaffolding & Engineering Co. Ltd., Swan Lane Works, Hindley Green, Lancs (C.88) Nufloor, Ltd., 34-36, Lauriston Road, Hackney

Official Architect and Planning Review, 63. Neal Street, W.C.2.
Oliver, Wm., & Sons, Ltd., 12/13, Bow Lane, (G.126)

Paint Removers, Ltd., 24, Ryder Street, St. James, S.W.I.
Palmers Travelling Cradle & Scaffolding Co., Ltd., 128, Great Suffolk Street, London, S.E.I. [D.61]
Palmer, W. T., & Co. (Leies.), Ltd., Thurmaston, Leicester, Parker Frederick, Ltd., Viaduct Works, Catherine Street, Leicester, Parsons, Thos., & Sons, Ltd., 76, Grosvenor Street, W.I. Parsons, Thos., & Sons, Ltd., W. Grissman, Fr. 120]
W.1.
Patgrin & Bryer Products, 40, Chiswick Common Road, W.4
Peerless Built-in Furniture, Ltd., Weston House, Perivale, Middx.
Peglers, Ltd., 11, Marshalsea Road, S.E.. [E.93]
Pegson, Ltd., Coalville, Leicester, B.32]
Penfold Fencing & Engineering, Ltd., Imperial Works, Watford.
Pestcure, Ltd., 6, Kingley Street, W.1.
[Gallery] Peskin, Ltd., 36, Kingsland Road, R.2. Phillips Wallington & Co., Ltd., 71a, Manchest Road, E.14. (Q.27 Philplug Products, Ltd., Lancelot Road, Wemble Road, E.14, Philping Froducts, Ltd., Lancelot Road, Wembley, Philping Froducts, Ltd., Lancelot Road, Wembley, Pickles, J. & Son, Engineers, Ltd., Hebden Works, Yorks. Pf.106, S.47) Pilkington, Bros., Ltd., St. Helen's, Lancs, (G.133) Pickles, 3. & Cour. Eng. 1988 [F.105, S.147] Yorks,
Pilkington Bros., Ltd., St. Helen's, Lancs. [G.133]
Pioneer Mixers, Ltd., 31, Font Street, Monkseaton,
near Newcastle-on-Tyne. [S.300]
Piper, W., 66, London Road, Bexhill-on-Sea.
[Gallery] Plesbrick Products (England), Ltd., 62, London Wall, London, E.C.2. (England), Street, N.1. Forter London Products, Ltd., Albany Street, N.1. Price, D. W., & Son, Ltd., Braemer Works, Neasden Lane, N.W.10. Primon Engineering Co., Ltd., 270, Old Brompton Road, London, S.W.5. (Gallery) Pritchard, R. W. (Manufacturing), Ltd., Mer-curius Works, Macfarlane Road, London, W.15. Prodorite, Ltd., Artillery House, Artillery Row, [L.220] Pyrene Co., Ltd., 9, Grosvenor Gardens, S.W.1. N.A. Pyrene Co., Ltd., 9, Grosvenor Gardens, S.W.1. [Gallery]

Railway Executive, 222, Marylebone Road, N.W.1 Randall, Wm., & Co., The Joinery Works, Manning Heath, Horsham, Sussex, Galleryl Randalrak, Ltd., 106, Victoria Street, S.W.1. (Galleryl Ransome, A., & Co., Ltd., Newark-on-Trent, IF-1061 Ransomes & Rapier, Ltd., Waterside Works, Inswich, Ipswich.
Rawlings Bros., Ltd., 85, Gloucester Road, S.W.7.
[C.52] Rawlplugs Co., Ltd., Rawlplug Honse, Cromwell Road, S.W.7. Red Circle, Ltd., Easter Arm, Gt. Cambridge Road, N.17. Redhill Tile Co., Ltd., Kingsfield, Redhill. [E.90]

Rely-a-Bell Burglar & Fire Alarms Co., Ltd., 54, Wilson Street, E.C.2. Rentokii, Ltd., School Lane, Fetcham, Leather-head, Surrey, Rhodes Chains, Ltd., Beacon House, 113, Kings-way, W.C.2. 2. & Starling, Ltd., Hyde Street, [Gallery] way, W.C.2 Richardson Winchester. Richardson & Gallery Winchester.
Road Machine (Drayton), Ltd., Horton Parade, P.268a | P.268a | Roberts, Adlard & Co., Ltd., Tweedy Road, Bromley, Kent. | Gallery | Robinson, Thos., & Sons, Ltd., Rochdale, Lancs, [H.155] Industries, Ltd., The Hyde, Henden, [Gallery] Romac Industries, Ltd., And W.C.I.
Roneo, Ltd., 17, Southampton Row, W.C.I.
[Gallery]
[F.118] Ronuk, Ltd., Portslade, Sussex. [Gallery]
Ruberoid Co., Ltd., Commonwealth House, 1/19,
New Oxford Street, W.C.1. [Q.273]
Ruddick, H. G., & Co., Ltd., 15, Western Street,
Brighton. [Gallery]
Russell, John, & Co., Ltd., Brook House, Upper
Brook Street, W.1.
Russell MacDonald & Co., Ltd., 7-8, Great Sutton
Street, Goswell Road, E.C.1. [C.41]
Ryan, C., & Co., 2-20, Paneras Street, W.C.1.
[B.24]

Thos., Sons & Co., 62, High Street,
[Gallery]

14d., Canal Works, Halifax.
[Gallery] Sadler, Thos., Sons & Co., 62, High Croydon. Sagar Development, Ltd., Canal Works, Sagar, J., & Co., Ltd., Canal Works, Hali Sagar, J., & Co., Ltd., Canal Works, Halifax.
[H.153]
Sal Ferricite & Trading Co., Ltd., 748, Fulham
Road, S.W.5.
Sand Lime Brick Manufacturers' Association, 55,
Romney Street, S.W.1. [C.49]
Sankey, J., & Sons, Ltd., 168, Regent Street, W.1.
[C.53] Saunders, H. A., Ltd., Watling Street, Radlett Sam Pit.
Scaffolding (G.B.), Ltd., 55, Plough Lane, S. Schubert, H., Ltd., 108, City Road, London, Scotney, T. M., Ltd., London Road, Saint Hunts. Scotney, T. M., Ltd., London Road, Saint Ives, Hunts. Sealocrete Products, Ltd., Atlantic Works. Macbeth Street, Hammersmith, W.6. [J.183] Secomastic, Ltd., Power Road, Chiswick, W.4. Secomastic, Ltd., Power Road, Chiswick, W.4.
Semet, M., & Co., 2, Caxton Street, S.W.1. [B.31]
Semtex, Ltd., St. James House, St. James Street, S.W.1. Shaftesbury Ladders, Ltd., 453, Katherine Road, Forest Gate, E.7. [Gallery]
Sharp Bros. & Knight, Ltd., Burton-on-Trent, Sherwords Painter, March 19, 2621 Sharp Bros. & Khilgher, John Processor Branch Briston, S.W.9.
Silvaine Paints, Ltd., Richford Street, Goldhawk Road, W.6.
Silicaseal, Ltd., Westgate Hill Grange, Newcastle, on Tyne. Road, W.v. Gallery, Gallery, on Tyne. (Gallery, on Tyne. Sissons Bros. & Co., Ltd., Bankside, Hull. (P.266) Skarsten Manufacturing Co., Ltd., 21, Hyde Way, Welwyn Garden City. (Gallery, Slingsby, H. C., Ltd., 89/97, Kingsway, W.C.2 (London, E.), Ltd., 169, Shaftes (D.64) Smith, J., & Co. (London, E.), Ltd., 169, Shaftes-bury Avenue, W.C.2.
Smiths English Clocks, Ltd., 179-185, Great Port-land Street, W.l.
Smiths Fireproof Floors, Ltd., Imber Court. East Molesey, Surrey
Solid Smokeless Fuels Federation, 1, Grosvenor Place, S.W.1.
Somerset Trading Co., Ltd., Bridgwater, Somerset, Somerset Trading Co., Ltd., Bridgwater, Somerset.

(C.48)
Sommerfield, H. J. & A., Ltd., Trench Works.
Wellington, Salop.
(A.15)
South-Eastern Brick & Tile Federation, 224s.
Shaftesbury Avenue, London, W.C.2. (D.83)
Staines Kitchen Equipment Co., Ltd., 94, Victoria
Street, S.W.1.
(B.23)
Stamford Trading Co., Ltd., 24-27, Kingsland
Road, London, E.2.
(Gallery)
Standard Catalogue Co., Ltd., 26, Bloomsbury
Way, W.C.1.
(K.203)
Stanleyd Way, W.C.1.
(K.203)
Stanleyd W. F., & Co., Ltd., Avery Hill Road,
New Eltham, S.E.9,
Steel Ceilings, Ltd., Float Works, Port Talbot,
Glam.
(Ba.289)

Steel Scaffolding Co., Ltd., 82, Victoria St. V. S. W.1.
Steelex, Ltd., 38, Hill Reach, Woolwich, S.E. 18
[Gallery]
Warker Stenners of Tiverton, Ltd., Lowman Works Tiverton, Devon. Stebhens & Carter, Ltd., 831/61, Harrow Road N.W.10. N.W.10.

tephenson Developments (Huddersfield), Ltd.,
Grosvenor Works, Linthwaite, Huddersfield,
[Gallery] Stewarts and Lloyds. Ltd., Glode Tube W. Wednesbury. IE Stothert & Pitt, Ltd., 166, Lower Bristol Bath. (0.2) Bath.
Stramit Boards. Ltd., Packet Boat Dock, Cowley
Peach, near Uxbridge.
Strond Bros., Ltd., 160, Church Walk, London,
[B.21] Strond N.16. N.16.
Structural & Mechanical Development Engineers,
Ltd., 2, Buckingham Avenue, Trading Estate,
Styles (Contractors), Ltd., 37/8, Haven Green,
Ealing, W.5.
Sussex & Dorking United Brick Co., Ltd., 14.
Market Square, Horsham, Sussex. [F.122]

Glam.
Glam. Street P. Co., Ltd., 82. Victoria Street P. Co.

Talbex, Ltd., Broad Street House, Old Broad Street, E.C.2.

Tella Co., Ltd., Tella House, Boswell Street, Queen Square, London, W.C.1.

Templar, C. G., & Co., Ltd., 109, Bollo Bridge Road, W.S.

Tentest Fibre Board Co., Ltd., 75, Crescent West, Hadley Wood, Barnet.

Thermacoust, Ltd., 39, Victoria Street, S.W.1. Thomas & Bishop, Ltd., 39, Arthur Road, S.V. Thompson, John, Beacon Windows, Ltd., Beacon Works, Wolverhampton.

Thormann, H. J., Engineering Co., Ltd., 5. Elstree Way, Boreham Woods, Herts.

Thwaites Agricultural Engineering Co., Ltd., Leamington Spa.

Tilley Lamp Co., Ltd., 33, Sackville Street, W.L. Timber Development Association, 75, Ca Street, E.C.4. [N Timber & Plywood (The Middlesex Publis Co., Ltd.). Trade Chronicles, Ltd., 6, Carmelite Street, I Tretol, Ltd., 12, North End Road, N.W.1 Trianco, Ltd., Imber Court, East Molesey, Surrey,
IP 260 & 263

True Flue, Ltd., Acacia Road, St. Johns Wood,
N.W.8. N.W.8.
Tucker, G., & Co., Ltd., Loughborough. [O.12]
Turner, Chas., & Son, Ltd., 165, High Holborn,
W.C.1.
Twisteel Reinforcement, Ltd., 43, Upper Thames
Street, W.1. wisteer Reinfords Street, W.1. Street, W.1. yrell. Edward, Ltd., 7, London Road, Sevenoaka, [Gallery] Tyrell Edward, Ltd., 1, Louis [Gallery] Kent. Tyrol Sales, Ltd., St. Benedict Chambers, 12, Fenchurch Street, E.C.3.

Union Glue & Gelatine Co., Ltd., Cransley Works, Garrett Street, E.C.1. [B.36] Unique Balance Co., Ltd., Yeovil, Somerset. [Gallery] United Sponge Co., Ltd., 41, Royal Mint Street, London, E.I. (Gallery) Universal Cleaning & Restoration Co., Ltd., Richford Street, Goldhawk Road, W.6. (J.180) Universal Shopfitting Co., Ltd., Kingley Bridge Road, S.E.26. (Gallery) Utilities (London), Ltd., 435/7, Brixton Road, S.W.9. (H.161)

Venesta, Ltd., Vintry House, Queen Street Place, E.C.4. E.C.4. Vigers, A., Sons & Co., Ltd., 59, Poland Street, W.1. W.L. Vitreflex, Ltd., Dafen, Llanelly, South Wald Vitrefiex, Ltd., Daten, Lianuay,
Volspray, Ltd., Grosvenor Gardens House, Grovenor Gardens, London, S.W.1. [Gallery]
Vulcan Manufacturing (Wolverhampton), Ltd.,
"New Griffen" Works, Wolverhampton [Gallery]

Vulcan Products, Ltd., 24, Ryder Street, St. James's, S.W.1.

Wadkin, Ltd., Green Lane Works, Leics.

Wallis & Co. (Long Baton), Ltd., Nottingham Road, Long Eaton, Notts.

Road, Long Eaton, Notts.

Ward's Flexible Rod Co., Ltd., 81, High Street, Farnborough, Kent.

Warenite, Ltd., 18, Grosvenor Gardens, S.W.I.

Warsops Power Tools, Ltd., 27, Regent Street, Piccadilly, S.W.I.

Watson's British Drawing Ink Co., Ltd., River Lane, Retford, Notts.

Waverley Book Co., Ltd., 96-97, Parringdon Street, London, E.C.4.

Waverley Book Co., Ltd., 96-97, Parringdon Street, London, E.C.4.

Wessex Industries (Poole), Ltd., Dolphin Works, East Street, Poole, Dorset.

Road, Barking.

White. Thos., & Son, Ltd., Clifton House, Euston Road, N.W.I.

Whitchill Spindle Tools, Ltd., 86, Beverley Way, S.W.20.

Wickham Engineering Co., Ltd., 34, Vicotas Street, S.W.I.

Williams, J., & Sons (Cardiff), Ltd., East Moore Road, Cardiff.

Williams & Williams, Ltd., Reliance Works, Chester.

Wiston Bros. (Leeds), Ltd., Victoria Road, Leeds, 11. Wilson Bros. (Leeds), Ltd., Victoria Road, Winget, Ltd., Rochester, Kent. [N.243]
Wood." 33, Tothill Street, S.W.1. [L.218]
Woodworking Industry" Trade Chronicles, Ltd., 180, Fleet Street, E.C.4.
Wright, John, & Sons (Veneers), Ltd., Avon Wharf, Longfellow Road, Mile End Road, E.3. [Gallery]

Yorkshire Copper Works, Ltd., Leeds. [G.132] Young & Marten, Ltd., 1-9, Romford Road, Strat-ford, E.15. Youngman, W. C., Ltd., Wandsworth Works, Wandsworth Road, S.W.3. [K.198/9]

Zinc Alloy Rust Proofing Co., Ltd., Shakesneare Street, Wolverhampton. Zinc Development Association, Lincoln House, Turl Street, Oxford.

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G.132] Strat-.234/5] Works, ..198/9]

sneare [T.302] House, [F.124]